TUCKER'S COMPENDIUM.

TF
666
.T89

LIBRARY OF CONGRESS.

Chap. ..... Copyright No. .....

Shelf TF666 .T89

UNITED STATES OF AMERICA.

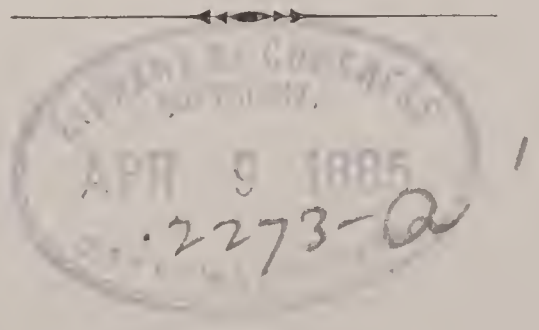
TUCKER'S COMPENDIUM

—OF—

RAPID CALCULATIONS

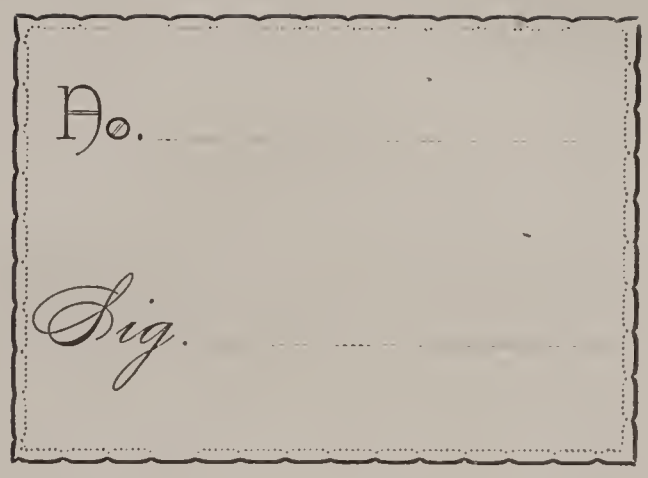
A Newly-Discovered Method for attaining Results, without having recourse to a Multiplicity of Figures, and thereby reducing to a Minimum the Possibility of Errors in a variety of calculations made daily in the interest of Railroads, Steamship Lines, Merchants, Bankers and Manufacturers, and proving upon trial a desirable help to all having the duties of an Accountant to perform.

5
1843



RICHMOND:
J. W. Fergusson & Son, Printers and Publishers.
1885.

TF666
.T89



6-31812

Entered, according to Act of Congress, in the year 1885, by SYLVESTER J. TUCKER,
In the Office of the Librarian of Congress, Washington, D. C.

SYNOPSIS OF CONTENTS.

PERCENTAGES. On Basis of Mileage or Revenue.

DIVISION OF REVENUE between Lines in Interest.

TABLE OF RATES. Giving the Rate per Ton per Mile, per Ton and per 100 Lbs,, for any distance named.

DIVISION OF RATES—Passenger or Freight—from 1 cent to $50,000.

PERCENTAGE. Expenses to Revenue—any given amount.

SPEED OF TRAINS. Correct Result of Miles per Hour made by Trains between Reporting Points.

REVOLUTIONS. This Table gives correctly the Number of Revolutions made by Wheels of any Diameter, from 12 Inches to 72 Inches, per Mile.

TONNAGE. Reduction of any given Weight to Tons of 2000 Lbs., 2240 Lbs., 2268 Lbs., as required; and Revenue for same at any given Rate.

INTEREST AND DISCOUNT on any given amount.

And other Novel and Correct Tables which will prove invaluable to Transportation Lines and Shippers.

SYLVESTER J. TUCKER,
RICHMOND, Va.

NOTE.

Your attention is called to the fact that the column of miles has omitted from it all distances ending in ciphers, simply because 1, 2, 3, 4 miles, &c., will answer for 10, 100; 20, 200; 30, 300; also, 25, 45, 59 and 78 miles, &c., will answer for 250, 450, 590, 780 miles, &c. In other words, 1 to 1499 miles will not alter in value the figures under their respective numerals by addition of ciphers.

EXAMPLE.—Total length of line, 700 miles, viz.:

	135 miles.	19.29 per cent.
	227 "	32.43 "
	182 "	26.00 "
	156 "	22.28 "
Total,	700 miles.	100 per cent.

Now find in column of miles figure **7,** which by adding two ciphers gives 700. Opposite to figure **7** and under the numerals, as required in above example, we find the percentage of each line named, thus:

100 under numeral 1.....1429	2...2857	1...1429	1...1429
30 " " 3..... 4286	2... 2857	8...11429	5... 7143
5 " " 5..... 7143	7... 10000	2 .. 2857	6... 8527
135 19.2903 per ct.	32.4270 per ct.	26.0047 per ct.	22.2857 per ct.

Also I give below an example showing the ciphers in mileage, forming the total and how to treat them, viz.:

206 miles.	25.75 per cent.
190 "	23.75 "
304 "	38.00 "
100 "	12.50 "
800 miles.	100 per cent.

Find in column of miles the figure **8** now opposite to it, and under the numerals required in above example we find following results:

200 under numeral 2...25000 per ct.	1...1250 per ct.	3...37500 per ct.	1...125000 per ct.
6 " " 6... 7500 "	9...11250 "	4... 6000 "	
25.7500 "	23.7500 "	38.0000 "	12.5000 "

☞**Do not forget this Rule:** When a cipher occurs between figures, add the cipher to the preceding result, viz.: Opposite to figure **8** and under numeral **2** we find 2500; now add the cipher thus, 25000.

☞**In every case advance one decimal to the right of preceding figures, as shown in example above.**

EXAMPLE No. 1—TABLE No. 1.

To find percentage of several railroad lines forming a total of 985 miles as follows:

277 miles,	- - - -	28.12 per cent.
362 "	- - - -	36.76 "
174 "	- - - -	17.66 "
172 "	- - - -	17.46 "
Total, 985 miles.		100 per cent.

EXPLANATION.—Find 985 miles in the column on left hand side of table; then to find the percentage 277 miles is of 985 miles, we look opposite to 985, and under the numerel **2** we see percentage 200 miles is of 985 miles to be 20.30. Under the figure **7** will be found 7106, which figures represent the percentage that both 70 and 7 is of 985 by changing the position of the decimal point. We have thus found:

Value of	200	under	numeral	2	to be	2030
"	"	70	"	"	7	"	7106
"	"	7	"	"	7	"	7106
Which shows		277	to be				28.1166 per cent.

In like manner and using only the figures on a line with the total mileage 985 miles, we find the proportions of the remaining lines as follows:

300	under	numeral	3.....	3046		1.....	1015		1.....	1015
60	"	"	6.....	6091		7.....	7106		7.....	7106
2	"	"	2.....	2030		4.....	4061		2.....	2030
362				36.7540 per cent.			17.6621 per cent.			17.4590 per cent.

In all cases advance one decimal to the right as shown in example, except in cases where a cipher occurs as follows: 205 miles of 985 miles would be

Value of	200 under numeral 2.....	2030
	00 add cipher to above.....	00
	5 under numeral 5.	5076
	205 miles.	20.8076 per cent.

EXAMPLE No. 2—TABLE No. 1.

To ascertain proportions when an arbitrary is demanded, viz.:

Arbitrary	13. per cent.
243	28.45
172	20.14
328	38.41
Total, 743 miles.	100. per cent.

Deduct the arbitrary 13 per cent. from 100 per cent., and we have 87 per cent. to divide among remaining lines: Turn to 743 in column of miles, and opposite to it and—

Under	the	numeral	8	will	be	found	the	figures	10767
"	"	"	7	"	"	"	"	"	9421
									1170.91

Now find in column under numeral **1** the figures 1171, which in this case will be opposite to 854 miles, which is the total distance including the mileage of the arbitrary 13 per cent., and to be used to ascertain the divisions required in the above example, viz.:

200	miles	under	numeral	2.....	2342	100	miles,	1—	1171	300	miles,	3—	3513
40	"	"	"	4.....	4684	70	"	7—	8197	20	"	2—	2342
3	"	"	"	3.....	3513	2	"	2—	2342	8	"	8—	9368
243					28.4553	172	"		20.1412	328			38.4088

TABLE No. 1.—(30 PAGES.)

Miles.	1	2	3	4	5	6	7	8	9
1	1000	2000	3000	4000	5000	6000	7000	8000	9000
2	5000	10000	15000	20000	25000	30000	35000	40000	45000
3	3333	6667	10000	13333	16667	20000	23333	26666	30000
4	2500	5000	7500	10000	12500	15000	17500	20000	22500
5	2000	4000	6000	8000	10000	12000	14000	16000	18000
6	1667	3333	5000	6667	8333	10000	11667	13334	15000
7	1429	2857	4286	5714	7143	8572	10000	11429	12857
8	1250	2500	3750	5000	6250	7500	8750	10000	11250
9	1111	2222	3333	4444	5556	6667	7778	8889	10000
11	9091	18182	27273	36364	45455	54545	63636	72727	81818
12	8333	16667	25000	33333	41667	50000	58333	66667	75000
13	7692	15385	23077	30769	38462	46154	53846	61538	69231
14	7143	14286	21428	28571	35714	42857	50000	57142	64285
15	6667	13333	20000	26667	33333	40000	46667	53333	60000
16	6250	12500	18750	25000	31250	37500	43750	50000	56250
17	5882	11765	17647	23530	29412	35294	41177	47059	52942
18	5556	11111	16667	22222	27778	33333	38889	44444	50000
19	5263	10526	15790	21053	26316	31579	36842	42106	47369
21	4762	9524	14286	19048	23810	28571	33333	38095	42857
22	4546	9091	13637	18182	22728	27273	31819	36364	40904
23	4348	8696	13043	17391	21739	26087	30435	34782	39130
24	4167	8333	12500	16667	20834	25000	29167	33334	37500
25	4000	8000	12000	16000	20000	24000	28000	32000	36000
	1	2	3	4	5	6	7	8	9
26	3846	7692	11539	15384	19231	23077	26923	30770	34616
27	3704	7407	11111	14815	18519	22222	25926	29630	33333
28	3571	7143	10714	14286	17857	21428	25000	28571	32143
29	3448	6897	10345	13793	17242	20690	24138	27586	31035
31	3226	6452	9677	12903	16129	19355	22581	25806	29032
32	3125	6250	9375	12500	15625	18750	21875	25000	28125
33	3030	6061	9091	12121	15152	18182	21212	24242	27273
34	2941	5882	8824	11765	14706	17647	20588	23530	26471
35	2857	5714	8571	11428	14286	17143	20000	22857	25714
36	2778	5556	8333	11111	13889	16667	19445	22222	25000
37	2703	5405	8108	10811	13514	16216	18919	21622	24327
38	2632	5263	7895	10526	13158	15790	18421	21053	23684
39	2564	5128	7692	10256	12821	15385	17949	20513	23077
41	2439	4878	7317	9756	12195	14634	17073	19512	21951
42	2381	4762	7143	9524	11905	14286	16667	19048	21429
43	2326	4651	6977	9302	11628	13954	16279	18605	20930
44	2273	4545	6818	9091	11364	13636	15909	18182	20454
45	2222	4444	6667	8889	11111	13333	15555	17778	20000
46	2174	4348	6522	8696	10870	13043	15217	17391	19565
47	2128	4255	6383	8511	10639	12766	14894	17022	19149
48	2083	4167	6250	8333	10417	12500	14583	16666	18750
49	2041	4082	6122	8163	10204	12245	14286	16326	18367
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
51	1961	3922	5882	7843	9804	11765	13726	15686	17647
52	1923	3846	5769	7692	9616	11539	13462	15385	17308
53	1887	3774	5660	7547	9434	11321	13208	15094	16981
54	1852	3704	5556	7408	9260	11111	12963	14815	16667
55	1818	3636	5455	7273	9091	10909	12727	14546	16364
56	1786	3571	5357	7143	8929	10714	12500	14286	16071
57	1754	3509	5263	7018	8772	10526	12281	14035	15790
58	1724	3448	5172	6896	8621	10345	12069	13793	15517
59	1695	3390	5085	6780	8475	10169	11864	13559	15254
61	1639	3279	4918	6557	8197	9836	11475	13114	14754
62	1613	3226	4839	6452	8065	9677	11290	12903	14516
63	1587	3175	4762	6349	7937	9524	11111	12698	14286
64	1563	3125	4688	6250	7813	9375	10938	12500	14063
65	1539	3077	4616	6154	7693	9231	10770	12308	13847
66	1515	3030	4546	6061	7576	9091	10606	12122	13637
67	1493	2985	4478	5970	7463	8955	10448	11940	13433
68	1471	2941	4412	5882	7353	8824	10294	11765	13235
69	1449	2899	4348	5797	7247	8696	10145	11594	13044
71	1409	2817	4226	5634	7043	8451	9860	11268	12677
72	1389	2778	4167	5556	6945	8333	9722	11111	12500
73	1370	2740	4110	5480	6850	8219	9589	10959	12329
74	1351	2703	4054	5406	6757	8108	9460	10811	12163
75	1333	2667	4000	5333	6667	8000	9333	10666	12000

	1	2	3	4	5	6	7	8	9
76	1316	2632	3947	5263	6579	7895	9211	10526	11842
77	1299	2597	3896	5195	6494	7792	9091	10390	11688
78	1282	2564	3846	5128	6411	7693	8975	10257	11539
79	1266	2532	3797	5063	6329	7595	8861	10126	11392
81	1235	2469	3704	4938	6173	7408	8642	9877	11111
82	1220	2439	3659	4878	6098	7317	8537	9756	10976
83	1205	2410	3614	4819	6024	7229	8434	9638	10843
84	1191	2381	3572	4762	5953	7143	8334	9524	10715
85	1177	2353	3530	4706	5883	7059	8236	9412	10589
86	1163	2326	3488	4651	5814	6977	8140	9302	10465
87	1149	2299	3448	4598	5747	6896	8046	9195	10345
88	1136	2273	3409	4546	5682	6818	7955	9091	10228
89	1124	2247	3371	4494	5618	6742	7865	8989	10112
91	1099	2198	3297	4396	5495	6593	7692	8791	9890
92	1087	2174	3261	4348	5435	6522	7609	8696	9783
93	1075	2151	3226	4301	5377	6452	7527	8602	9678
94	1064	2128	3191	4255	5319	6383	7447	8510	9574
95	1053	2105	3158	4210	5263	6316	7368	8421	9473
96	1042	2083	3125	4167	5209	6250	7292	8334	9375
97	1031	2062	3093	4124	5155	6185	7216	8247	9278
98	1020	2041	3061	4082	5102	6122	7143	8163	9184
99	1010	2020	3030	4040	5051	6061	7071	8081	9091

	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
101	9901	19802	29703	39604	49505	59406	69307	79208	89109
102	9804	19608	29412	39216	49020	58823	68627	78431	88235
103	9709	19417	29126	38835	48554	58252	67961	77670	87378
104	9615	19231	28846	38462	48077	57692	67308	76923	86539
105	9524	19048	28571	38095	47619	57143	66667	76190	85714
106	9434	18868	28302	37736	47170	56604	66038	75472	88906
107	9346	18692	28037	37383	46729	56075	65421	74766	84112
108	9259	18519	27778	37037	46297	55556	64815	74074	83334
109	9174	18349	27523	36697	45872	55046	64220	73394	82569
111	9009	18018	27027	36036	45045	54054	63063	72072	81081
112	8929	17857	26786	35714	44643	53572	62500	71429	80357
113	8850	17699	26549	35398	44248	53098	61947	70797	79646
114	8772	17544	26316	35088	43860	52631	61403	70175	78947
115	8696	17391	26087	34783	43479	52174	60870	69566	78261
116	8621	17241	25862	34483	43104	51724	60345	68966	77586
117	8547	17094	25641	34188	42736	51283	59830	68377	76924
118	8475	16949	25424	33898	42373	50848	59322	67797	76271
119	8403	16807	25210	33614	42017	50420	58824	67227	75631
121	8265	16529	24794	33058	41323	49587	57852	66116	74381
122	8197	16393	24590	32787	40984	49180	57377	65574	73770
123	8130	16260	24390	32520	40651	48781	56911	65041	73171
124	8065	16129	24194	32258	40323	48387	56452	64516	72581
125	8000	16000	24000	32000	40000	48000	56000	64000	72000

	1	2	3	4	5	6	7	8	9
126	7937	15873	23810	31746	39683	47619	55556	63492	71429
127	7874	15748	23622	31496	39370	47244	55118	62992	70866
128	7813	15625	23438	31250	39063	46875	54688	62500	70313
129	7752	15504	23256	31008	38759	46511	54263	62015	69767
131	7634	15267	22901	30534	38168	45802	53435	61069	68702
132	7576	15152	22727	30303	37879	45455	53031	60606	68182
133	7519	15038	22556	30075	37594	45113	52632	60150	67669
134	7463	14925	22388	29851	37314	44776	52239	59702	67164
135	7407	14815	22222	29630	37037	44444	51852	59259	66667
136	7353	14706	22059	29412	36765	44117	51470	58823	66176
137	7299	14598	21898	29197	36496	43795	51094	58394	65693
138	7246	14493	21739	28986	36232	43478	50725	57971	65218
139	7194	14388	21583	28777	35971	43165	50359	57554	64748
141	7092	14184	21277	28369	35461	42553	49645	56738	63830
142	7042	14085	21127	28169	35212	42254	49296	56338	63381
143	6993	13986	20979	27972	34965	41958	23891	55944	62937
144	6944	13889	20833	27778	34722	41666	48611	55555	62500
145	6897	13793	20690	27586	34483	41379	48276	55172	62069
146	6849	13699	20548	27397	34247	41096	47945	54794	61644
147	6803	13605	20408	27211	34014	40816	47619	54422	61224
148	6757	13514	20270	27027	33784	40541	47298	54054	60811
149	6711	13423	20134	26846	33557	40268	46980	53691	60403

	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
151	6623	13245	19868	26490	33113	39735	46358	52980	59603
152	6579	13158	19737	26316	32895	39473	46052	52631	59210
153	6536	13072	19608	26144	32680	39215	45751	52287	58823
154	6494	12987	19481	25974	32468	38961	45455	51948	58442
155	6452	12903	19355	25806	32258	38710	45161	51613	58064
156	6410	12821	19231	25641	32052	38462	44872	51282	57693
157	6369	12739	19108	25478	31847	38216	44586	50955	57325
158	6329	12658	18987	25316	31646	37975	44304	50633	56962
159	6289	12579	18868	25157	31447	37736	44025	50314	56604
161	6211	12422	18634	24845	31056	37267	43478	49690	55901
162	6173	12346	18518	24691	30864	37037	43210	49382	55555
163	6135	12270	18405	24540	30675	36810	42945	49080	55215
164	6098	12195	18293	24390	30488	36586	42683	48781	54878
165	6061	12121	18182	24242	30303	36364	42424	48485	54545
166	6024	12048	18072	24096	30121	36145	42169	48193	54217
167	5988	11976	17964	23952	29940	35928	41916	47904	53892
168	5952	11905	17857	23810	29762	35714	41667	47619	53572
169	5917	11834	17752	23669	29586	35503	41420	47338	53255
171	5848	11696	17544	23392	29240	35088	40936	46784	52632
172	5814	11628	17442	23256	29070	34884	40698	46512	52326
173	5780	11561	17341	23121	28902	34682	40462	46242	52023
174	5747	11494	17241	22988	28736	34483	40230	45977	51724
175	5714	11429	17143	22857	28572	34286	40000	45714	51429
	1	2	3	4	5	6	7	8	9
176	5682	11364	17045	22727	28409	34091	39773	45454	51136
177	5650	11299	16949	22599	28249	33898	39548	45198	50847
178	5618	11236	16854	22472	28090	33708	39326	44944	50562
179	5587	11173	16760	22346	27933	33520	39106	44693	50279
181	5525	11050	16575	22100	27625	33149	38674	44199	49724
182	5495	10989	16484	21978	27473	32967	38462	43956	49451
183	5465	10929	16394	21858	27323	32787	38252	43716	49181
184	5435	10870	16304	21739	27174	32609	38044	43478	48913
185	5405	10811	16216	21622	27027	32432	37838	43243	48649
186	5376	10753	16129	21505	26882	32258	37634	43010	48387
187	5348	10695	16043	21390	26738	32086	37433	42781	48128
188	5319	10638	15957	21276	26596	31915	37234	42553	47872
189	5291	10582	15873	21164	26455	31746	37037	42328	47619
191	5236	10471	15707	20942	26178	31414	36649	41885	47120
192	5208	10417	15625	20833	26042	31250	36458	41666	46875
193	5181	10363	15544	20726	25907	31088	36270	41451	46633
194	5155	10309	15464	20618	25773	30928	36082	41237	46391
195	5128	10256	15385	20513	25641	30769	35897	41026	46154
196	5102	10204	15306	20408	25510	30612	35714	40816	45918
197	5076	10152	15228	20304	25381	30457	35533	40609	45685
198	5051	10101	15152	20202	25253	30303	35354	40404	45455
199	5025	10050	15075	20100	25126	30151	35176	40201	45226
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
201	4975	9950	14925	19900	24876	29851	34826	39801	44776
202	4951	9901	14852	19802	24753	29703	34654	39604	44555
203	4926	9852	14778	19704	24631	29557	34483	39409	44335
204	4902	9804	14706	19608	24510	29412	34314	39216	44118
205	4878	9756	14634	19512	24391	29269	34147	39025	43903
206	4854	9709	14563	19418	24272	29126	33981	38835	43690
207	4831	9662	14493	19324	24155	28985	33816	38647	43478
208	4808	9615	14423	19231	24039	28846	33654	38462	43269
209	4785	9569	14354	19139	23924	28708	33493	38278	43062
211	4739	9479	14218	18957	23697	28436	33175	37914	42654
212	4717	9434	14151	18868	23585	28302	33019	37736	42453
213	4695	9390	14084	18779	23474	28169	32864	37558	42253
214	4673	9346	14019	18692	23365	28037	32710	37383	42056
215	4651	9302	13954	18605	23256	27907	32558	37210	41861
216	4630	9259	13889	18518	23148	27778	32407	37037	41666
217	4608	9217	13825	18433	23042	27650	32258	36866	41475
218	4587	9174	13762	18349	22936	27523	32110	36698	41285
219	4566	9132	13699	18265	22831	27397	31963	36530	41096
221	4525	9050	13575	18100	22625	27149	31674	36199	40724
222	4505	9009	13514	18018	22523	27027	31532	36036	40541
223	4484	8969	13453	17937	22422	26906	31390	35874	40359
224	4464	8929	13393	17857	22321	26786	31250	35714	40179
225	4444	8889	13333	17778	22222	26666	31111	35555	40000
	1	2	3	4	5	6	7	8	9
226	4425	8850	13274	17699	22124	26549	30974	35398	39823
227	4405	8811	13216	17621	22026	26432	30837	35242	39648
228	4386	8772	13158	17544	21930	26316	30702	35088	39474
229	4367	8734	13100	17467	21834	26201	30568	34934	39301
231	4329	8658	12987	17316	21645	25974	30303	34632	38961
232	4310	8621	12931	17242	21552	25862	30173	34483	38794
233	4292	8584	12875	17167	21459	25751	30043	34334	38626
234	4274	8547	12821	17094	21368	25641	29915	34188	38462
235	4255	8511	12766	17021	21277	25532	29787	34042	38298
236	4237	8475	12712	16949	21187	25424	29661	33898	38136
237	4219	8439	12658	16878	21097	25316	29536	33755	37975
238	4202	8403	12605	16807	21009	25210	29412	33614	37815
239	4185	8368	12552	16736	20921	25105	29289	33473	37657
241	4149	8299	12448	16598	20747	24896	29046	33195	37345
242	4132	8264	12397	16529	20661	24793	28925	33058	37190
243	4115	8230	12346	16461	20576	24691	28806	32922	37037
244	4098	8197	12295	16394	20492	24590	28689	32787	36886
245	4082	8163	12245	16326	20408	24490	28571	32653	36734
246	4065	8130	12195	16260	20325	24390	28455	32520	36585
247	4049	8097	12146	16194	20243	24292	28340	32389	36437
248	4032	8065	12097	16129	20162	24194	28226	32258	36291
249	4016	8032	12048	16064	20081	24097	28112	32129	36145
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
251	3984	7968	11952	15936	19921	23905	27889	31873	35857
252	3968	7937	11905	15873	19842	23810	27778	31746	35715
253	3953	7905	11858	15810	19763	23716	27668	31621	35573
254	3937	7874	11811	15748	19685	23622	27559	31496	35433
255	3922	7843	11765	15686	19608	23530	27451	31373	35294
256	3906	7813	11719	15625	19532	23438	27344	31250	35157
257	3891	7782	11673	15564	19456	23347	27238	31129	35020
258	3876	7752	11628	15504	19380	23256	27132	31008	34884
259	3861	7722	11583	15444	19305	23166	27027	30888	34749
261	3831	7663	11494	15326	19157	22988	26820	30651	34483
262	3817	7634	11450	15267	19084	22901	26718	30534	34351
263	3802	7605	11407	15209	19012	22814	26616	30418	34221
264	3788	7576	11364	15152	18940	22727	26515	30303	34091
265	3774	7547	11321	15094	18868	22642	26415	30189	33962
266	3759	7519	11278	15038	18797	22556	26316	30075	33835
267	3745	7491	11236	14981	18727	22472	26217	29962	33708
268	3731	7463	11194	14925	18657	22388	26119	29850	33582
269	3718	7435	11153	14870	18588	22305	26023	29740	33458
271	3690	7380	11070	14760	18450	22140	25830	29520	33210
272	3677	7353	11030	14706	18383	22059	25736	29412	33089
273	3663	7326	10989	14652	18315	21978	25641	29304	32967
274	3650	7299	10949	14598	18248	21898	25547	29197	32846
275	3636	7273	10909	14546	18182	21818	25452	29091	32728
	1	2	3	4	5	6	7	8	9
276	3623	7246	10870	14493	18116	21739	25362	28986	32609
277	3610	7220	10830	14440	18051	21661	25271	28881	32491
278	3597	7194	10791	14388	17986	21583	25180	28777	32374
279	3584	7168	10753	14337	17921	21505	25089	28674	32258
281	3559	7117	10676	14235	17794	21352	24911	28470	32028
282	3546	7092	10638	14184	17731	21277	24823	28369	31915
283	3534	7067	10601	14134	17668	21202	24735	28269	31802
284	3521	7042	10563	14084	17606	21127	24648	28169	31690
285	3509	7018	10526	14035	17544	21053	24562	28070	31579
286	3497	6993	10490	13986	17483	20979	24476	27972	31469
287	3484	6969	10453	13937	17422	20906	24390	27874	31359
288	3472	6944	10417	13889	17361	20833	24305	27778	31250
289	3460	6920	10381	13841	17301	20761	24221	27682	31142
291	3436	6873	10309	13746	17182	20618	24055	27491	30928
292	3425	6849	10274	13698	17123	20548	23972	27397	30821
293	3413	6826	10239	13652	17065	20478	23891	27304	30717
294	3401	6803	10204	13606	17007	20408	23810	27211	30613
295	3390	6780	10169	13559	16949	20339	23729	27118	30508
296	3378	6757	10135	13514	16892	20270	23649	27027	30406
297	3367	6734	10101	13468	16835	20202	23569	26936	30303
298	3356	6712	10067	13423	16779	20134	23490	26847	30202
299	3345	6689	10034	13378	16723	20067	23412	26756	30101
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
301	3322	6644	9967	13289	16611	19933	23255	26578	29900
302	3311	6623	9934	13245	16557	19868	23179	26490	29802
303	3300	6601	9901	13201	16502	19802	23102	26402	29703
304	3290	6579	9869	13158	16448	19737	23027	26316	29606
305	3279	6557	9836	13115	16394	19672	22951	26230	29508
306	3268	6536	9804	13072	16340	19608	22876	26144	29412
307	3257	6515	9772	13029	16287	19544	22801	26058	29316
308	3247	6494	9740	12987	16234	19481	22728	25974	29221
309	3236	6472	9709	12945	16181	19417	22653	25890	29126
311	3215	6431	9646	12862	16077	19292	22508	25723	28939
312	3205	6410	9615	12820	16026	19231	22436	25641	28846
313	3195	6390	9585	12780	15975	19169	22364	25559	28754
314	3185	6369	9554	12739	15924	19108	22293	25478	28662
315	3175	6349	9524	12698	15873	19048	22222	25397	28571
316	3165	6329	9494	12658	15823	18988	22152	25317	28481
317	3155	6309	9464	12618	15773	18928	22082	25237	28391
318	3145	6289	9434	12579	15724	18868	22013	25158	28302
319	3135	6270	9404	12539	15674	18809	21944	25078	28213
321	3115	6231	9346	12461	15577	18692	21807	24922	28038
322	3106	6211	9317	12422	15528	18634	21739	24845	27950
323	3096	6192	9288	12384	15480	18576	21672	24768	27864
324	3086	6173	9259	12346	15432	18518	21605	24691	27778
325	3077	6154	9231	12308	15385	18461	21538	24615	27692
	1	2	3	4	5	6	7	8	9
326	3068	6135	9203	12270	15338	18405	21473	24540	27608
327	3058	6116	9174	12232	15291	18349	21407	24465	27523
328	3049	6098	9146	12195	15244	18293	21342	24390	27439
329	3040	6079	9119	12158	15198	18237	21277	24316	27356
331	3021	6042	9063	12084	15106	18127	21148	24169	27190
332	3012	6024	9036	12048	15060	18072	21084	24096	27108
333	3003	6006	9009	12012	15015	18018	21021	24024	27027
334	2994	5988	8982	11976	14970	17964	20958	23952	26946
335	2985	5970	8955	11940	14926	17911	20896	23881	26866
336	2976	5952	8929	11905	14881	17857	20833	23810	26786
337	2967	5935	8902	11870	14837	17804	20772	23739	26707
338	2959	5917	8876	11834	14793	17752	20710	23669	26627
339	2950	5900	8850	11800	14750	17699	20649	23599	26549
341	2933	5865	8798	11730	14663	17596	20528	23461	26393
342	2924	5848	8772	11696	14620	17544	20468	23392	26316
343	2916	5831	8747	11662	14578	17493	20409	23324	26240
344	2907	5814	8721	11628	14535	17442	20349	23256	26163
345	2899	5797	8696	11594	14493	17392	20290	23189	26087
346	2890	5780	8671	11561	14451	17341	20231	23122	26012
347	2882	5764	8645	11527	14409	17291	20173	23054	25936
348	2874	5747	8621	11494	14368	17242	20115	22989	25862
349	2865	5731	8596	11461	14327	17192	20057	22922	25788
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
351	2849	5698	8547	11396	14245	17094	19943	22792	25641
352	2841	5682	8523	11364	14205	17045	19886	22727	25568
353	2833	5666	8499	11332	14165	16997	19830	22663	25496
354	2825	5650	8475	11300	14125	16949	19774	23599	25424
355	2817	5634	8451	11268	14085	16901	19718	22535	25352
356	2809	5618	8427	11236	14045	16854	19663	22472	25281
357	2801	5602	8403	11204	14006	16807	19608	22409	25210
358	2793	5587	8380	11173	13967	16760	19553	22346	25140
359	2786	5571	8357	11142	13928	16713	19499	22284	25070
361	2770	5540	8310	11080	13851	16621	19391	22161	24931
362	2762	5525	8287	11050	13812	16574	19337	22099	24862
363	2755	5510	8264	11019	13774	16529	19284	22038	24793
364	2747	5495	8242	10989	13737	16484	19231	21978	24726
365	2740	5479	8219	10959	13699	16438	19178	21918	24657
366	2732	5464	8197	10929	13661	16393	19125	21858	24590
367	2725	5450	8174	10899	13624	16349	19074	21798	24523
368	2717	5435	8152	10870	13587	16304	19022	21739	24457
369	2710	5420	8130	10840	13550	16260	18970	21680	24390
371	2695	5391	8086	10782	13477	16172	18868	21563	24259
372	2688	5376	8065	10753	13441	16129	18817	21506	24194
373	2681	5362	8043	10724	13405	16086	18767	21448	24129
374	2674	5348	8021	10695	13369	16043	18717	21390	24064
375	2667	5333	8000	10667	13334	16000	18667	21334	24000
	1	2	3	4	5	6	7	8	9
376	2660	5319	7979	10638	13298	15958	18617	21277	23936
377	2653	5305	7958	10610	13263	15915	18568	21220	23873
378	2646	5291	7937	10582	13228	15873	18519	21164	23810
379	2639	5277	7916	10554	13193	15831	18470	21108	23747
381	2625	5249	7874	10499	13124	15748	18373	20998	23622
382	2618	5236	7853	10471	13089	15707	18325	20942	23560
383	2611	5222	7833	10444	13055	15666	18277	20888	23499
384	2604	5208	7813	10417	13021	15625	18229	20834	23438
385	2597	5195	7792	10390	12987	15584	18182	20779	23377
386	2591	5181	7772	10363	12954	15544	18135	20726	23316
387	2584	5168	7752	10336	12920	15504	18088	20672	23256
388	2577	5155	7732	10309	12887	15464	18041	20618	23196
389	2571	5141	7712	10283	12854	15424	17995	20566	23136
391	2558	5115	7673	10230	12788	15345	17903	20460	23018
392	2551	5102	7653	10204	12755	15306	17857	20408	22959
393	2545	5089	7634	10178	12723	15267	17812	20356	22901
394	2538	5076	7614	10152	12691	15229	17767	20305	22843
395	2532	5063	7595	10126	12658	15190	17721	20253	22784
396	2525	5051	7576	10101	12627	15152	17677	20202	22728
397	2519	5038	7557	10076	12595	15113	17632	20151	22670
398	2513	5025	7538	10050	12563	15076	17588	20101	22613
399	2506	5013	7519	10025	12532	15038	17544	20050	22557
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
401	2494	4988	7481	9975	12469	14963	17457	19950	22444
402	2488	4975	7463	9950	12438	14926	17413	19901	22388
403	2481	4963	7444	9926	12407	14888	17370	19851	22333
404	2475	4950	7426	9901	12376	14851	17326	19802	22277
405	2469	4938	7407	9876	12346	14815	17284	19753	22222
406	2463	4926	7389	9852	12316	14779	17242	19705	22168
407	2457	4914	7371	9828	12285	14742	17199	19656	22113
408	2451	4902	7353	9804	12255	14706	17157	19608	22059
409	2445	4890	7335	9780	12225	14670	17115	19560	22005
411	2433	4866	7299	9732	12166	14599	17032	19465	21898
412	2427	4854	7282	9709	12136	14563	16990	19418	21845
413	2421	4843	7264	9685	12107	14528	16949	19370	21792
414	2416	4831	7247	9662	12078	14493	16909	19324	21740
415	2410	4819	7229	9638	12048	14458	16867	19277	21686
416	2404	4808	7211	9615	12019	14423	16827	19230	21634
417	2398	4796	7194	9592	11991	14389	16787	19185	21583
418	2392	4785	7177	9569	11962	14354	16746	19138	21538
419	2387	4773	7160	9546	11933	14320	16706	19093	21479
421	2375	4751	7126	9501	11877	14252	16627	19002	21378
422	2370	4739	7109	9479	11849	14218	16588	18958	21327
423	2364	4728	7092	9456	11821	14185	16549	18913	21277
424	2359	4717	7076	9434	11793	14151	16510	18868	21227
425	2353	4706	7059	9412	11765	14117	16470	18823	21176
	1	2	3	4	5	6	7	8	9
426	2347	4695	7042	9390	11737	14084	16432	18779	21127
427	2342	4684	7026	9368	11710	14051	16393	18735	21077
428	2337	4673	7010	9346	11683	14019	16356	18692	21029
429	2331	4662	6993	9324	11655	13986	16317	18648	20979
431	2320	4640	6961	9281	11601	13921	16241	18562	20882
432	2315	4630	6944	9259	11574	13889	16204	18518	20833
433	2310	4619	6929	9238	11548	13857	16167	18476	20786
434	2304	4608	6913	9217	11521	13825	16129	18434	20738
435	2299	4598	6897	9196	11495	13793	16092	18391	20690
436	2294	4587	6881	9174	11468	13762	16055	18349	20642
437	2288	4577	6865	9153	11442	13730	16018	18306	20595
438	2283	4566	6849	9132	11416	13699	15982	18265	20548
439	2278	4556	6834	9112	11390	13667	15945	18223	20501
441	2268	4535	6803	9070	11338	13606	15873	18141	20408
442	2262	4525	6787	9050	11312	13574	15837	18099	20362
443	2257	4515	6772	9029	11287	13544	15801	18058	20316
444	2252	4505	6757	9009	11262	13514	15766	18018	20271
445	2247	4494	6742	8989	11236	13483	15730	17978	20225
446	2242	4484	6727	8969	11211	13453	15695	17938	20180
447	2237	4474	6711	8948	11186	13423	15660	17897	20134
448	2232	4464	6696	8928	11161	13393	15625	17857	20089
449	2227	4454	6682	8909	11136	13363	15590	17818	20045
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
451	2217	4435	6652	8869	11087	13304	15521	17738	19956
452	2212	4425	6637	8850	11062	13274	15487	17699	19912
453	2208	4415	6623	8830	13038	13245	15453	17660	19868
454	2203	4405	6608	8810	11013	13216	15418	17621	19823
455	2198	4396	6593	8791	10989	13187	15385	17582	19780
456	2193	4386	6579	8772	10965	13158	15351	17544	19737
457	2188	4376	6565	8753	10941	13129	15317	17506	19694
458	2183	4367	6550	8734	10917	13100	15284	17467	19651
459	2179	4357	6536	8715	10894	13072	15251	17430	19608
461	2169	4338	6508	8677	10846	13015	15184	17354	19523
462	2165	4329	6494	8658	10823	12987	15152	17316	19481
463	2160	4320	6479	8639	10799	12959	15119	17278	19438
464	2155	4310	6466	8621	10776	12931	15086	17242	19397
465	2151	4301	6452	8602	10753	12903	15054	17204	19355
466	2146	4292	6438	8584	10730	12875	15021	17167	19313
467	2141	4283	6424	8565	10707	12848	14989	17130	19272
468	2137	4274	6410	8547	10684	12821	14958	17094	19231
469	2132	4264	6397	8529	10661	12793	14925	17058	19190
471	2123	4246	6369	8492	10616	12739	14862	16985	19108
472	2119	4237	6356	8474	10593	12712	14830	16949	19067
473	2114	4228	6343	8457	10571	12685	14799	16914	19028
474	2110	4219	6329	8439	10549	12658	14768	16878	18987
475	2105	4211	6316	8421	10527	12632	14737	16842	18948
	1	2	3	4	5	6	7	8	9
476	2101	4202	6302	8403	10504	12605	14706	16806	18907
477	2096	4193	6289	8386	10482	12578	14675	16771	18868
478	2092	4184	6276	8368	10461	12553	14645	16737	18829
479	2088	4175	6263	8351	10439	12526	14614	16702	18789
481	2079	4158	6237	8316	10395	12474	14553	16632	18711
482	2075	4149	6224	8299	10374	12448	14523	16598	18672
483	2070	4141	6211	8282	10352	12422	14493	16563	18634
484	2066	4132	6198	8264	10331	12397	14463	16529	18595
485	2062	4124	6186	8248	10310	12371	14433	16495	18557
486	2058	4115	6173	8230	10288	12346	14403	16461	18518
487	2053	4107	6160	8214	10267	12320	14374	16427	18481
488	2049	4098	6148	8197	10246	12295	14344	16394	18443
489	2045	4090	6135	8180	10225	12270	14315	16360	18405
491	2037	4073	6110	8147	10184	12220	14257	16294	18330
492	2033	4065	6098	8130	10163	12195	14228	16260	18293
493	2028	4057	6085	8114	10142	12170	14199	16227	18256
494	2024	4049	6073	8097	10122	12146	14170	16194	18219
495	2020	4040	6061	8081	10101	12121	14141	16162	18182
496	2016	4032	6048	8064	10081	12097	14113	16129	18145
497	2012	4024	6036	8048	10061	12073	14085	16097	18109
498	2008	4016	6034	8032	10040	12048	14056	16064	18072
499	2004	4008	6012	8016	10020	12024	14028	16032	18036
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
501	1996	3992	5988	7984	9980	11976	13972	15968	17964
502	1992	3984	5976	7968	9960	11952	13944	15936	17928
503	1988	3976	5964	7952	9941	11929	13917	15905	17893
504	1984	3968	5952	7936	9921	11905	13889	15873	17857
505	1980	3960	5941	7921	9901	11881	13861	15842	17822
506	1976	3953	5929	7905	9881	11858	13834	15810	17787
507	1972	3945	5917	7890	9862	11834	13807	15779	17752
508	1969	3937	5906	7874	9843	11811	13780	15748	17717
509	1965	3929	5894	7858	9823	11788	13752	15717	17681
511	1957	3914	5871	7828	9785	11741	13698	15655	17612
512	1953	3906	5859	7812	9766	11719	13672	15625	17578
513	1949	3899	5848	7797	9747	11696	13645	15594	17544
514	1946	3891	5837	7782	9728	11673	13619	15564	17510
515	1942	3883	5825	7767	9709	11650	13592	15534	17475
516	1938	3876	5814	7752	9690	11628	13566	15504	17442
517	1934	3868	5803	7737	9671	11605	13539	15474	17408
518	1931	3861	5792	7722	9653	11583	13514	15444	17375
519	1927	3854	5780	7707	9634	11561	13488	15414	17341
521	1919	3839	5758	7678	9597	11516	13436	15355	17275
522	1916	3831	5747	7663	9579	11494	13410	15326	17241
523	1912	3824	5736	7648	9560	11472	13384	15296	17208
524	1908	3817	5725	7634	9542	11450	13359	15267	17176
525	1905	3810	5714	7619	9524	11429	13334	15238	17143
	1	2	3	4	5	6	7	8	9
526	1901	3802	5703	7604	9506	11407	13308	15209	17110
527	1898	3795	5693	7590	9488	11385	13283	15180	17078
528	1894	3788	5682	7576	9470	11364	13258	15152	17046
529	1890	3781	5671	7562	9452	11342	13233	15123	17014
531	1883	3766	5650	7533	9416	11299	13182	15066	16949
532	1880	3759	5639	7519	9399	11278	13158	15038	16917
533	1876	3752	5629	7505	9381	11257	13133	15010	16886
534	1873	3745	5618	7491	9364	11236	13109	14982	16854
535	1869	3738	5608	7477	9346	11215	13084	14954	16823
536	1866	3731	5597	7463	9329	11194	13060	14926	16791
537	1862	3724	5587	7449	9311	11173	13035	14898	16760
538	1859	3717	5576	7435	9294	11152	13011	14870	16728
539	1855	3711	5566	7421	9277	11132	12987	14842	16698
541	1848	3697	5545	7394	9242	11090	12939	14787	16636
542	1845	3690	5535	7380	9225	11070	12915	14760	16605
543	1842	3683	5525	7366	9208	11050	12891	14733	16574
544	1838	3676	5515	7353	9191	11029	12867	14706	16544
545	1835	3670	5505	7340	9175	11009	12844	14679	16514
546	1832	3663	5495	7326	9158	10989	12821	14652	16484
547	1828	3656	5485	7313	9141	10969	12797	14626	16454
548	1825	3650	5474	7299	9124	10949	12774	14598	16423
549	1822	3643	5465	7286	9108	10929	12751	14572	16394
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
551	1815	3630	5445	7260	9075	10889	12704	14519	16334
552	1812	3623	5435	7246	9058	10870	12681	14493	16304
553	1808	3617	5425	7233	9042	10850	12658	14466	16275
554	1805	3610	5415	7220	9026	10831	12636	14441	16246
555	1802	3604	5405	7207	9009	10811	12613	14414	16216
556	1799	3597	5396	7194	8993	10792	12590	14389	16187
557	1795	3591	5386	7181	8977	10772	12567	14362	16158
558	1792	3584	5376	7168	8961	10753	12545	14337	16129
559	1789	3578	5367	7156	8945	10733	12522	14311	16100
561	1783	3565	5348	7130	8913	10695	12478	14260	16043
562	1779	3559	5338	7118	8897	10676	12456	14235	16015
563	1776	3552	5329	7105	8881	10657	12433	14210	15986
564	1773	3546	5319	7092	8866	10639	12412	14185	15958
565	1770	3540	5310	7080	8850	10619	12389	14159	15929
566	1767	3534	5300	7067	8834	10601	12368	14134	15901
567	1764	3527	5291	7055	8819	10582	12346	14110.	15873
568	1761	3521	5282	7042	8803	10564	12324	14085	15845
569	1758	3515	5273	7030	8788	10545	12303	14060	15818
571	1751	3503	5254	7005	8757	10508	12259	14010	15762
572	1748	3497	5245	6993	8742	10490	12238	13986	15735
573	1745	3490	5236	6981	8726	10471	12216	13962	15707
574	1742	3484	5227	6969	8711	10453	12195	13938	15680
575	1739	3478	5217	6956	8696	10435	12174	13913	15652
	1	2	3	4	5	6	7	8	9
576	1736	3472	5208	6944	8681	10417	12153	13889	15625
577	1733	3466	5199	6932	8666	10399	12132	13865	15598
578	1730	3460	5190	6920	8651	10381	12111	13841	15571
579	1727	3454	5181	6908	8636	10363	12090	13817	15544
581	1721	3442	5164	6885	8606	10327	12048	13770	15491
582	1718	3436	5155	6873	8591	10309	12027	13746	15464
583	1715	3431	5146	6861	8577	10292	12007	13722	15438
584	1712	3425	5137	6849	8562	10274	11986	13698	15411
585	1709	3419	5128	6838	8547	10256	11966	13675	15385
586	1707	3413	5120	6826	8533	10239	11946	13652	15359
587	1704	3407	5111	6814	8518	10222	11925	13629	15332
588	1701	3401	5102	6803	8504	10204	11905	13606	15306
589	1698	3396	5093	6791	8489	10187	11885	13582	15280
591	1692	3384	5076	6768	8460	10152	11844	13536	15228
592	1689	3378	5068	6757	8446	10135	11824	13514	15203
593	1686	3373	5059	6745	8432	10118	11804	13490	15177
594	1684	3367	5051	6734	8418	10101	11785	13468	15152
595	1681	3361	5042	6723	8404	10084	11765	13446	15126
596	1678	3356	5034	6712	8390	10067	11745	13423	15101
597	1675	3350	5025	6700	8375	10050	11725	13400	15075
598	1672	3344	5017	6689	8361	10033	11705	13378	15050
599	1699	3339	5008	6678	8347	10016	11686	13355	15025
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
601	1664	3328	4992	6656	8320	9983	11647	13311	14975
602	1661	3322	4983	6644	8306	9967	11628	13289	14950
603	1658	3317	4975	6634	8292	9950	11609	13267	14926
604	1656	3311	4967	6622	8278	9934	11589	13245	14900
605	1653	3306	4959	6612	8265	9917	11570	13223	14876
606	1650	3300	4951	6601	8251	9901	11551	13202	14852
607	1647	3295	4942	6590	8237	9884	11532	13179	14827
608	1645	3289	4934	6579	8224	9868	11513	13158	14802
609	1642	3284	4926	6568	8210	9852	11494	13136	14778
611	1637	3273	4910	6547	8184	9820	11457	13094	14730
612	1634	3268	4902	6536	8170	9804	11438	13072	14706
613	1631	3263	4894	6525	8157	9788	11419	13050	14682
614	1629	3257	4886	6515	8144	9772	11401	13030	14658
615	1626	3252	4878	6504	8130	9756	11382	13008	14634
616	1623	3247	4870	6494	8117	9740	11364	12987	14611
617	1621	3241	4862	6483	8104	9724	11345	12966	14586
618	1618	3236	4854	6472	8091	9709	11327	12945	14563
619	1616	3231	4847	6462	8078	9693	11309	12924	14540
621	1610	3221	4831	6441	8052	9662	11272	12882	14493
622	1608	3215	4823	6431	8039	9646	11254	12862	14469
623	1605	3210	4815	6420	8026	9631	11236	12841	14446
624	1603	3205	4808	6410	8013	9616	11218	12821	14423
625	1600	3200	4800	6400	8000	9600	11200	12800	14400
	1	2	3	4	5	6	7	8	9
626	1597	3195	4792	6390	7987	9584	11182	12779	14377
627	1595	3190	4785	6380	7975	9569	11164	12759	14354
628	1592	3185	4777	6370	7962	9554	11147	12739	14332
629	1590	3180	4769	6359	7949	9539	11129	12718	14308
631	1585	3170	4754	6339	7924	9509	11094	12678	14263
632	1582	3165	4747	6329	7912	9494	11076	12658	14241
633	1580	3160	4739	6319	7899	9479	11059	12638	14218
634	1577	3155	4732	6309	7887	9464	11041	12618	14196
635	1575	3150	4724	6299	7874	9449	11024	12598	14173
636	1572	3145	4717	6289	7862	9434	11006	12578	14151
637	1570	3140	4710	6280	7850	9419	10989	12559	14129
638	1567	3135	4702	6270	7837	9404	10972	12539	14107
639	1565	3130	4695	6260	7825	9389	10954	12519	14084
641	1560	3120	4680	6240	7801	9361	10921	12481	14041
642	1558	3115	4673	6280	7788	9346	10903	12461	14018
643	1555	3110	4666	6221	7776	9331	10886	12442	13997
644	1553	3106	4658	6211	7764	9317	10870	12422	13975
645	1550	3101	4651	6202	7752	9302	10853	12403	13954
646	1548	3096	4644	6192	7740	9288	10836	12384	13932
647	1546	3091	4637	6182	7728	9274	10819	12365	13910
648	1543	3086	4630	6173	7716	9259	10802	12346	13889
649	1541	3082	4622	6163	7704	9245	10786	12326	13867
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
651	1536	3072	4608	6144	7681	9217	10753	12289	13825
652	1534	3067	4601	6135	7669	9202	10736	12270	13803
653	1531	3063	4594	6126	7657	9188	10720	12251	13783
654	1529	3058	4587	6116	7646	9175	10704	12233	13762
655	1527	3053	4580	6107	7634	9160	10687	12214	13740
656	1524	3049	4573	6098	7622	9146	10671	12195	13720
657	1522	3044	4566	6088	7611	9133	10655	12177	13699
658	1520	3040	4559	6079	7599	9119	10639	12158	13678
659	1518	3035	4553	6070	7588	9105	10623	12140	13658
661	1513	3026	4539	6052	7565	9077	10590	12103	13616
662	1511	3021	4532	6042	7553	9064	10574	12085	13595
663	1508	3017	4525	6033	7542	9050	10558	12066	13575
664	1506	3012	4518	6024	7530	9036	10542	12048	13554
665	1504	3008	4511	6015	7519	9023	10527	12030	13534
666	1502	3003	4505	6006	7508	9009	10511	12012	13514
667	1499	2999	4498	5997	7497	8996	10495	11994	13494
668	1497	2994	4491	5988	7485	8982	10479	11976	13473
669	1495	2990	4484	5979	7474	8969	10464	11958	13453
671	1490	2981	4471	5961	7452	8942	10432	11922	13413
672	1488	2976	4464	5952	7441	8929	10417	11905	13393
673	1486	2972	4458	5944	7430	8915	10401	11887	13373
674	1484	2967	4451	5935	7419	8902	10386	11870	13353
675	1482	2963	4445	5926	7408	8889	10371	11852	13334
	1	2	3	4	5	6	7	8	9
676	1479	2959	4438	5917	7397	8786	10355	11834	13314
677	1477	2954	4431	5908	7386	8863	10340	11817	13294
678	1475	2950	4425	5900	7375	8849	10324	11799	13274
679	1473	2946	4418	5891	7364	8837	10310	11782	13255
681	1468	2937	4405	5874	7342	8810	10279	11747	13216
682	1466	2933	4399	5865	7332	8798	10264	11730	13197
683	1464	2928	4392	5856	7321	8785	10249	11713	13177
684	1462	2924	4386	5848	7310	8772	10234	11696	13158
685	1460	2920	4380	5840	7300	8759	10219	11679	13139
686	1458	2915	4373	5831	7289	8746	10204	11662	13119
687	1456	2911	4367	5822	7278	8734	10189	11645	13100
688	1454	2907	4361	5814	7268	8721	10175	11628	13082
689	1451	2903	4354	5806	7257	8708	10160	11611	13063
691	1447	2894	4342	5789	7236	8683	10130	11578	13025
692	1445	2890	4335	5780	7226	8671	10116	11561	13006
693	1443	2886	4329	5772	7215	8658	10101	11544	12987
694	1441	2882	4323	5764	7205	8645	10086	11527	12968
695	1439	2878	4317	5756	7195	8633	10072	11511	12950
696	1437	2874	4310	5747	7184	8621	10058	11494	12931
697	1435	2869	4304	5739	7174	8608	10043	11478	12912
698	1433	2865	4298	5731	7164	8596	10029	11462	12894
699	1431	2861	4292	5722	7153	8584	10014	11445	12875
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
701	1427	2853	4280	5706	7133	8559	9986	11412	12839
702	1425	2849	4274	5698	7123	8547	9972	11396	12821
703	1423	2845	4268	5690	7113	8535	9958	11380	12803
704	1421	2841	4262	5682	7103	8523	9944	11364	12785
705	1418	2837	4255	5674	7092	8510	9929	11347	12766
706	1416	2833	4249	5666	7082	8498	9915	11331	12748
707	1414	2829	4243	5658	7072	8486	9901	11315	12730
708	1412	2825	4237	5650	7062	8474	9887	11299	12712
709	1410	2821	4231	5642	7052	8462	9873	11283	12694
711	1407	2813	4220	5626	7033	8439	9845	11252	12659
712	1405	2809	4214	5618	7023	8427	9832	11236	12641
713	1403	2805	4208	5610	7013	8415	9818	11220	12623
714	1401	2801	4202	5602	7003	8404	9804	11205	12605
715	1399	2797	4196	5594	6993	8392	9790	11189	12587
716	1397	2793	4190	5586	6983	8380	9776	11173	12569
717	1395	2789	4184	5579	6974	8368	9763	11158	12552
718	1393	2786	4178	5571	6964	8357	9750	11142	12535
719	1391	2782	4172	5563	6954	8345	9736	11126	12517
721	1387	2774	4161	5548	6935	8322	9709	11096	12483
722	1385	2770	4155	5540	6925	8310	9695	11080	12465
723	1383	2766	4149	5532	6916	8299	9682	11065	12448
724	1381	2762	4144	5525	6906	8287	9668	11050	12431
725	1379	2759	4138	5517	6897	8276	9655	11034	12414
	1	2	3	4	5	6	7	8	9
726	1377	2755	4132	5510	6887	8264	9642	11019	12397
727	1376	2751	4127	5502	6878	8253	9629	11004	12380
728	1374	2747	4121	5494	6868	8242	9615	10989	12362
729	1372	2743	4115	5487	6859	8230	9602	10974	12345
731	1368	2736	4104	5472	6840	8208	9576	10944	12312
732	1366	2732	4098	5464	6831	8197	9563	10929	12295
733	1364	2729	4093	5457	6822	8186	9550	10914	12279
734	1362	2725	4087	5450	6812	8174	9537	10899	12262
735	1361	2721	4082	5442	6803	8163	9524	10884	12245
736	1359	2717	4076	5435	6794	8152	9511	10870	12228
737	1357	2714	4071	5428	6785	8141	9498	10855	12212
738	1355	2710	4065	5420	6775	8130	9485	10840	12195
739	1353	2706	4060	5413	6766	8119	9472	10826	12179
741	1350	2699	4049	5398	6748	8097	9447	10796	12146
742	1348	2695	4043	5391	6739	8086	9434	10782	12129
743	1346	2692	4038	5384	6730	8075	9421	10767	12113
744	1344	2688	4032	5376	6721	8065	9409	10753	12097
745	1342	2685	4027	5369	6712	8054	9396	10738	12081
746	1341	2681	4022	5362	6703	8043	9384	10724	12065
747	1339	2677	4016	5355	6694	8032	9371	10710	12048
748	1337	2674	4011	5348	6685	8021	9358	10695	12032
749	1335	2670	4005	5340	6676	8011	9346	10681	12016
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
751	1332	2663	3995	5326	6658	7990	9321	10653	11984
752	1330	2660	3989	5319	6649	7979	9309	10638	11968
753	1328	2656	3984	5312	6640	7968	9296	10624	11952
754	1326	2653	3979	5305	6632	7958	9284	10610	11937
755	1325	2649	3974	5298	6623	7947	9272	10596	11921
756	1323	2646	3968	5291	6614	7937	9260	10582	11905
757	1321	2642	3963	5284	6605	7926	9247	10568	11889
758	1319	2639	3958	5277	6597	7916	9235	10554	11874
759	1318	2635	3953	5270	6588	7905	9223	10540	11858
761	1314	2628	3942	5256	6571	7885	9199	10513	11827
762	1312	2625	3937	5249	6562	7874	9186	10498	11811
763	1311	2621	3932	5242	6553	7864	9174	10485	11795
764	1309	2618	3927	5236	6545	7853	9162	10471	11780
765	1307	2614	3922	5229	6536	7843	9150	10458	11765
766	1306	2611	3917	5222	6528	7833	9139	10444	11750
767	1304	2608	3911	5215	6519	7823	9127	10430	11734
768	1302	2604	3906	5208	6511	7813	9115	10417	11719
769	1300	2601	3901	5202	6502	7802	9103	10403	11704
771	1297	2594	3891	5188	6485	7782	9079	10376	11673
772	1295	2591	3886	5181	6477	7772	9067	10362	11658
773	1294	2587	3881	5175	6469	7762	9056	10350	11643
774	1292	2584	3876	5168	6460	7752	9044	10336	11628
775	1290	2581	3871	5161	6452	7742	9032	10322	11613
	1	2	3	4	5	6	7	8	9
776	1289	2577	3866	5155	6444	7732	9021	10310	11598
777	1287	2574	3861	5148	6435	7722	9009	10296	11583
778	1285	2571	3856	5141	6427	7712	8997	10282	11568
779	1284	2567	3851	5135	6419	7702	8986	10270	11553
781	1280	2561	3841	5122	6402	7682	8963	10243	11524
782	1279	2558	3836	5115	6394	7673	8952	10230	11509
783	1277	2554	3831	5108	6386	7663	8940	10217	11494
784	1276	2551	3827	5102	6378	7653	8929	10204	11480
785	1274	2548	3822	5096	6370	7644	8918	10192	11466
786	1272	2545	3817	5089	6362	7634	8906	10178	11451
787	1271	2541	3812	5082	6353	7624	8894	10165	11435
788	1269	2538	3807	5076	6345	7614	8883	10152	11421
789	1267	2535	3802	5070	6337	7604	8872	10139	11407
791	1264	2528	3793	5057	6321	7585	8849	10114	11378
792	1263	2525	3788	5050	6313	7576	8838	10101	11363
793	1261	2522	3783	5044	6305	7566	8827	10088	11349
794	1259	2519	3778	5038	6297	7556	8816	10075	11335
795	1258	2516	3774	5032	6290	7547	8805	10063	11321
796	1256	2513	3769	5025	6282	7538	8794	10050	11307
797	1255	2509	3764	5019	6274	7528	8783	10038	11292
798	1253	2506	3759	5012	6266	7519	8772	10025	11278
799	1252	2503	3755	5006	6258	7510	8761	10013	11264
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
801	1248	2497	3745	4994	6242	7490	8739	9987	11236
802	1247	2494	3741	4988	6235	7481	8728	9975	11222
803	1245	2491	3736	4981	6227	7472	8717	9962	11208
804	1244	2488	3731	4975	6219	7463	8707	9950	11194
805	1242	2484	3727	4969	6211	7453	8695	9938	11180
806	1241	2481	3722	4963	6204	7444	8685	9926	11166
807	1239	2478	3718	4957	6196	7435	8674	9914	11153
808	1238	2475	3713	4950	6188	7426	8663	9901	11138
809	1236	2472	3708	4944	6181	7417	8653	9889	11125
811	1233	2466	3699	4932	6165	7398	8631	9864	11097
812	1232	2463	3695	4926	6158	7389	8621	9852	11084
813	1230	2460	3690	4920	6150	7380	8610	9840	11070
814	1229	2457	3686	4914	6143	7371	8600	9828	11057
815	1227	2454	3681	4908	6135	7362	8589	9816	11043
816	1226	2451	3677	4902	6128	7353	8579	9804	11030
817	1224	2448	3672	4896	6120	7344	8568	9792	11016
818	1223	2445	3668	4890	6113	7335	8558	9780	11003
819	1221	2442	3663	4884	6105	7326	8547	9768	10989
821	1218	2436	3654	4872	6090	7308	8526	9744	10962
822	1217	2433	3650	4866	6083	7299	8516	9732	10949
823	1215	2430	3645	4860	6076	7291	8506	9721	10936
824	1214	2427	3641	4854	6068	7282	8495	9709	10922
825	1212	2424	3636	4848	6061	7273	8485	9697	10909
	1	2	3	4	5	6	7	8	9
826	1211	2421	3632	4843	6054	7264	8475	9686	10896
827	1209	2418	3628	4837	6046	7255	8464	9674	10883
828	1208	2415	3623	4831	6039	7246	8454	9662	10869
829	1206	2413	3619	4825	6032	7238	8444	9650	10857
831	1203	2407	3610	4814	6017	7220	8424	9627	10831
832	1202	2404	3606	4808	6010	7211	8413	9615	10817
833	1201	2401	3602	4802	6003	7203	8404	9604	10805
834	1199	2398	3597	4796	5995	7194	8393	9592	10791
835	1198	2395	3593	4790	5988	7186	8383	9581	10778
836	1196	2392	3589	4785	5981	7177	8373	9570	10766
837	1195	2389	3584	4779	5974	7168	8363	9558	10752
838	1193	2387	3580	4773	5967	7160	8353	9546	10740
839	1192	2384	3576	4768	5960	7151	8343	9535	10727
841	1189	2378	3567	4756	5946	7135	8324	9513	10702
842	1188	2375	3563	4750	5938	7126	8313	9501	10688
843	1186	2372	3559	4745	5931	7117	8303	9490	10676
844	1185	2370	3554	4739	5924	7109	8294	9478	10663
845	1183	2367	3550	4734	5917	7100	8284	9467	10651
846	1182	2364	3546	4728	5910	7092	8274	9456	10638
847	1181	2361	3542	4722	5903	7084	8264	9445	10625
848	1179	2358	3538	4717	5896	7075	8254	9434	10613
849	1178	2356	3534	4712	5890	7067	8245	9423	10601
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
851	1175	2350	3525	4700	5876	7051	8226	9401	10576
852	1174	2347	3521	4695	5869	7042	8216	9390	10563
853	1172	2345	3517	4689	5862	7034	8206	9378	10551
854	1171	2342	3513	4684	5855	7026	8197	9368	10539
855	1170	2339	3509	4678	5848	7018	8187	9357	10526
856	1168	2336	3505	4673	5841	7009	8177	9346	10514
857	1167	2334	3501	4668	5835	7001	8168	9335	10502
858	1166	2331	3497	4662	5828	6993	8159	9324	10490
859	1164	2328	3492	4656	5821	6985	8149	9313	10477
861	1161	2323	3484	4646	5807	6968	8130	9291	10453
862	1160	2320	3480	4640	5801	6961	8121	9281	10441
863	1159	2317	3476	4635	5794	6952	8111	9270	10428
864	1157	2315	3472	4630	5787	6944	8102	9259	10417
865	1156	2312	3468	4624	5781	6937	8093	9249	10405
866	1155	2309	3464	4619	5774	6928	8083	9238	10392
867	1153	2307	3460	4614	5767	6920	8074	9227	10381
868	1152	2304	3456	4608	5761	6913	8065	9217	10369
869	1151	2301	3452	4603	5754	6904	8055	9206	10356
871	1148	2296	3444	4592	5741	6889	8037	9185	10333
872	1147	2294	3440	4587	5734	6881	8028	9174	10321
873	1146	2291	3437	4582	5728	6873	8019	9164	10310
874	1144	2288	3433	4577	5721	6865	8009	9154	10298
875	1143	2286	3429	4572	5715	6857	8000	9143	10286
	1	2	3	4	5	6	7	8	9
876	1142	2283	3425	4566	5708	6850	7991	9133	10274
877	1140	2281	3421	4561	5702	6842	7982	9122	10263
878	1139	2278	3417	4556	5695	6834	7973	9112	10251
879	1138	2275	3413	4551	5689	6826	7964	9102	10239
881	1135	2270	3405	4540	5676	6811	7946	9081	10216
882	1134	2268	3401	4535	5669	6803	7937	9070	10204
883	1133	2265	3398	4530	5663	6795	7928	9060	10193
884	1131	2262	3394	4525	5656	6787	7918	9050	10181
885	1130	2260	3390	4520	5650	6779	7909	9039	10169
886	1129	2257	3386	4515	5644	6772	7901	9030	10158
887	1127	2255	3382	4510	5637	6764	7892	9019	10147
888	1126	2252	3378	4504	5631	6757	7883	9009	10135
889	1125	2250	3375	4500	5625	6749	7874	8999	10124
891	1122	2245	3367	4489	5612	6734	7856	8978	10101
892	1121	2242	3363	4484	5606	6727	7848	8969	10090
893	1120	2240	3359	4479	5599	6719	7839	8958	10078
894	1119	2237	3356	4474	5593	6712	7830	8949	10067
895	1117	2235	3352	4469	5587	6704	7821	8938	10056
896	1116	2232	3348	4464	5581	6697	7813	8929	10045
897	1115	2230	3344	4459	5574	6689	7804	8918	10033
898	1114	2227	3341	4454	5568	6682	7795	8909	10022
899	1112	2225	3337	4449	5562	6674	7786	8898	10011
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
901	1110	2220	3330	4440	5550	6659	7769	8879	9989
902	1109	2217	3326	4434	5543	6652	7760	8869	9977
903	1107	2215	3322	4430	5537	6644	7752	8859	9967
904	1106	2212	3319	4425	5531	6637	7743	8850	9956
905	1105	2210	3315	4420	5525	6630	7735	8840	9945
906	1104	2208	3311	4415	5519	6623	7727	8830	9934
907	1103	2205	3308	4410	5513	6615	7718	8820	9923
908	1101	2203	3304	4405	5507	6608	7709	8810	9912
909	1100	2200	3300	4400	5501	6601	7701	8801	9901
911	1098	2195	3293	4391	5489	6586	7684	8782	9879
912	1097	2193	3290	4386	5483	6579	7676	8772	9869
913	1095	2191	3286	4381	5477	6572	7667	8762	9858
914	1094	2188	3282	4376	5471	6565	7659	8753	9847
915	1093	2186	3279	4372	5465	6557	7650	8743	9836
916	1092	2183	3275	4367	5459	6550	7642	8734	9825
917	1091	2181	3272	4362	5453	6543	7634	8724	9815
918	1089	2179	3268	4357	5447	6536	7625	8714	9804
919	1088	2176	3264	4352	5441	6529	7617	8705	9793
921	1086	2172	3257	4343	5429	6515	7601	8686	9772
922	1085	2169	3254	4338	5423	6508	7592	8677	9761
923	1083	2167	3250	4334	5417	6500	7584	8667	9751
924	1082	2165	3247	4329	5412	6494	7576	8658	9741
925	1081	2162	3243	4324	5406	6487	7568	8649	9730
	1	2	3	4	5	6	7	8	9
926	1080	2160	3240	4320	5400	6479	7559	8639	9719
927	1079	2157	3236	4315	5394	6472	7551	8630	9708
928	1078	2155	3233	4310	5388	6466	7543	8621	9698
929	1076	2153	3229	4306	5382	6458	7535	8611	9688
931	1074	2148	3222	4296	5371	6445	7519	8593	9667
932	1073	2146	3219	4292	5365	6438	7511	8584	9657
933	1072	2144	3215	4287	5359	6431	7503	8574	9646
934	1071	2141	3212	4283	5354	6424	7495	8566	9636
935	1070	2139	3209	4278	5348	6417	7487	8556	9626
936	1068	2137	3205	4274	5342	6410	7479	8547	9616
937	1067	2134	3202	4269	5336	6403	7470	8538	9605
938	1066	2132	3198	4264	5331	6397	7463	8529	9595
939	1065	2130	3195	4260	5325	6390	7455	8520	9585
941	1063	2125	3188	4251	5314	6376	7439	8502	9564
942	1062	2123	3185	4246	5308	6370	7431	8493	9554
943	1060	2121	3181	4242	5302	6362	7423	8483	9544
944	1059	2119	3178	4237	5297	6356	7415	8474	9534
945	1058	2116	3175	4233	5291	6349	7407	8466	9524
946	1057	2114	3171	4228	5286	6343	7400	8457	9514
947	1056	2112	3168	4224	5280	6336	7392	8449	9504
948	1055	2110	3165	4220	5275	6329	7384	8439	9494
949	1054	2107	3161	4215	5269	6322	7376	8430	9483
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
951	1052	2103	3155	4206	5258	6309	7361	8412	9464
952	1050	2101	3151	4202	5252	6302	7353	8403	9454
953	1049	2099	3148	4197	5247	6296	7345	8394	9444
954	1048	2096	3145	4193	5241	6289	7337	8386	9434
955	1047	2094	3141	4188	5236	6283	7330	8377	9424
956	1046	2092	3138	4184	5230	6276	7322	8368	9414
957	1045	2090	3135	4180	5225	6269	7314	8359	9404
958	1044	2088	3131	4175	5219	6263	7307	8350	9394
959	1043	2086	3128	4171	5214	6257	7300	8342	9385
961	1041	2081	3122	4162	5203	6244	7284	8325	9365
962	1040	2079	3119	4158	5198	6237	7277	8316	9356
963	1038	2077	3115	4154	5192	6230	7269	8307	9346
964	1037	2075	3112	4149	5187	6224	7261	8298	9336
965	1036	2073	3109	4145	5182	6218	7254	8290	9327
966	1035	2070	3106	4141	5176	6211	7246	8282	9317
967	1034	2068	3102	4136	5171	6205	7239	8273	9307
968	1033	2066	3099	4132	5166	6199	7232	8265	9298
969	1032	2064	3096	4128	5160	6192	7224	8256	9288
971	1030	2060	3090	4120	5150	6179	7209	8239	9269
972	1029	2058	3086	4115	5144	6173	7202	8230	9259
973	1028	2056	3083	4111	5139	6167	7195	8222	9250
974	1027	2053	3080	4107	5134	6160	7187	8214	9240
975	1026	2051	3077	4102	5128	6154	7179	8205	9230
	1	2	3	4	5	6	7	8	9
976	1025	2049	3074	4098	5123	6148	7172	8197	9221
977	1024	2047	3071	4094	5118	6141	7165	8188	9212
978	1023	2045	3068	4090	5113	6135	7158	8180	9203
979	1022	2043	3065	4086	5108	6129	7151	8172	9194
981	1019	2039	3058	4078	5097	6116	7136	8155	9175
982	1018	2037	3055	4073	5092	6110	7128	8146	9165
983	1017	2035	3052	4069	5087	6104	7121	8138	9156
984	1016	2033	3049	4065	5082	6098	7114	8130	9147
985	1015	2030	3046	4061	5076	6091	7106	8122	9137
986	1014	2028	3043	4057	5071	6085	7099	8114	9128
987	1013	2026	3040	4053	5066	6079	7092	8106	9119
988	1012	2024	3036	4048	5061	6073	7085	8097	9109
989	1011	2022	3033	4044	5056	6067	7078	8089	9100
991	1009	2018	3027	4036	5046	6055	7064	8073	9082
992	1008	2016	3024	4032	5041	6049	7057	8065	9073
993	1007	2014	3021	4028	5035	6042	7049	8056	9063
994	1006	2012	3018	4024	5030	6036	7042	8048	9054
995	1005	2010	3015	4020	5025	6030	7035	8040	9045
996	1004	2008	3012	4016	5020	6024	7028	8032	9036
997	1003	2006	3009	4012	5015	6018	7021	8024	9027
998	1002	2004	3006	4008	5010	6012	7014	8016	9018
999	1001	2002	3003	4004	5005	6006	7007	8008	9009
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
1001	999	1998	2997	3996	4995	5994	6993	7992	8991
1002	998	1996	2994	3992	4990	5988	6986	7984	8982
1003	997	1994	2991	3988	4985	5982	6979	7976	8973
1004	996	1992	2988	3984	4980	5976	6972	7968	8964
1005	995	1990	2985	3980	4975	5970	6965	7960	8955
1006	994	1988	2982	3976	4970	5964	6958	7952	8946
1007	993	1986	2979	3972	4965	5958	6951	7944	8937
1008	992	1984	2976	3968	4961	5953	6945	7937	8929
1009	991	1982	2973	3964	4955	5946	6937	7928	8919
1011	989	1978	2967	3956	4946	5935	6924	7913	8902
1012	988	1976	2964	3952	4941	5929	6917	7905	8893
1013	987	1974	2962	3949	4936	5923	6910	7898	8885
1014	986	1972	2959	3945	4931	5917	6903	7890	8876
1015	985	1970	2956	3941	4926	5911	6896	7882	8867
1016	984	1969	2953	3937	4922	5906	6890	7874	8859
1017	983	1967	2950	3933	4917	5900	6883	7866	8850
1018	982	1965	2947	3929	4912	5894	6876	7858	8841
1019	981	1963	2944	3926	4907	5888	6870	7851	8833
1021	979	1959	2938	3918	4897	5876	6856	7835	8815
1022	979	1957	2936	3914	4893	5871	6850	7828	8807
1023	978	1955	2933	3910	4888	5865	6843	7820	8798
1024	977	1953	2930	3906	4883	5860	6836	7813	8789
1025	976	1951	2927	3902	4878	5854	6829	7805	8780
	1	2	3	4	5	6	7	8	9
1026	975	1949	2924	3899	4874	5848	6823	7798	8772
1027	974	1947	2921	3895	4869	5842	6816	7790	8763
1028	973	1946	2918	3891	4864	5837	6810	7782	8755
1029	972	1944	2915	3887	4859	5831	6803	7774	8746
1031	970	1940	2910	3880	4850	5819	6789	7759	8729
1032	969	1938	2907	3876	4845	5814	6783	7752	8721
1033	968	1936	2904	3872	4840	5808	6776	7744	8712
1034	967	1934	2901	3868	4836	5803	6770	7737	8704
1035	966	1932	2899	3865	4831	5797	6763	7730	8696
1036	965	1931	2896	3861	4827	5792	6757	7722	8688
1037	964	1929	2893	3857	4822	5786	6750	7714	8679
1038	963	1927	2890	3854	4817	5780	6744	7707	8671
1039	963	1925	2888	3850	4813	5775	6738	7700	8663
1041	961	1921	2882	3842	4803	5764	6724	7685	8645
1042	960	1919	2879	3839	4799	5758	6718	7678	8637
1043	959	1918	2876	3835	4794	5753	6712	7670	8629
1044	958	1916	2874	3832	4790	5747	6705	7663	8621
1045	957	1914	2871	3828	4785	5741	6698	7655	8612
1046	956	1912	2868	3824	4780	5736	6692	7648	8604
1047	955	1910	2865	3820	4776	5731	6686	7641	8596
1048	954	1908	2863	3817	4771	5725	6679	7634	8588
1049	953	1907	2860	3813	4767	5720	6673	7626	8580
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
1051	952	1903	2855	3806	4758	5709	6661	7612	8564
1052	951	1901	2852	3802	4753	5704	6654	7605	8555
1053	950	1899	2849	3799	4749	5698	6648	7598	8547
1054	949	1898	2846	3795	4744	5693	6642	7590	8539
1055	948	1896	2844	3792	4740	5687	6635	7583	8531
1056	947	1894	2841	3788	4735	5682	6629	7576	8523
1057	946	1892	2838	3784	4731	5677	6623	7569	8515
1058	945	1890	2836	3781	4726	5671	6616	7562	8507
1059	944	1889	2833	3777	4722	5666	6610	7554	8499
1061	943	1885	2828	3770	4713	5655	6598	7540	8483
1062	942	1883	2825	3766	4708	5650	6591	7533	8474
1063	941	1881	2822	3763	4704	5644	6585	7526	8466
1064	940	1880	2819	3759	4699	5639	6579	7518	8458
1065	939	1878	2817	3756	4695	5634	6573	7512	8451
1066	938	1876	2814	3752	4691	5629	6567	7505	8443
1067	937	1874	2812	3749	4686	5623	6560	7498	8435
1068	936	1873	2809	3745	4682	5618	6554	7490	8427
1069	935	1871	2806	3742	4677	5612	6548	7483	8419
1071	934	1867	2801	3735	4669	5602	6536	7470	8403
1072	933	1866	2798	3731	4664	5597	6530	7462	8395
1073	932	1864	2796	3728	4660	5592	6524	7456	8388
1074	931	1862	2793	3724	4656	5587	6518	7449	8380
1075	930	1860	2791	3721	4651	5581	6511	7442	8372
	1	2	3	4	5	6	7	8	9
1076	929	1859	2788	3718	4647	5576	6506	7435	8365
1077	929	1857	2786	3714	4643	5571	6500	7428	8357
1078	928	1855	2783	3710	4638	5566	6493	7421	8348
1079	927	1854	2780	3707	4634	5561	6488	7414	8341
1081	925	1850	2775	3700	4626	5551	6476	7401	8326
1082	924	1848	2773	3697	4621	5545	6469	7394	8318
1083	923	1847	2770	3694	4617	5540	6464	7387	8311
1084	923	1845	2768	3690	4613	5535	6458	7380	8302
1085	922	1843	2765	3687	4609	5530	6452	7374	8295
1086	921	1842	2762	3683	4604	5525	6446	7366	8287
1087	920	1840	2760	3680	4600	5519	6439	7359	8279
1088	919	1838	2757	3676	4596	5515	6434	7352	8272
1089	918	1837	2755	3673	4592	5510	6428	7346	8265
1091	917	1833	2750	3666	4583	5500	6416	7333	8249
1092	916	1832	2747	3663	4579	5495	6411	7326	8242
1093	915	1830	2745	3660	4575	5489	6404	7319	8234
1094	914	1828	2742	3656	4571	5485	6399	7313	8227
1095	913	1826	2740	3653	4566	5479	6392	7306	8219
1096	912	1825	2737	3650	4562	5474	6837	7299	8212
1097	912	1823	2735	3646	4558	5470	6381	7293	8204
1098	911	1821	2732	3643	4554	5464	6375	7286	8196
1099	910	1820	2730	3640	4550	5459	6369	7279	8189
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
1101	908	1817	2725	3633	4542	5450	6358	7266	8175
1102	907	1815	2722	3630	4537	5444	6352	7259	8167
1103	907	1813	2720	3626	4533	5440	6346	7253	8159
1104	906	1812	2717	3623	4529	5435	6341	7246	8152
1105	905	1810	2715	3620	4525	5430	6335	7240	8145
1106	904	1808	2713	3617	4521	5425	6329	7234	8138
1107	903	1807	2710	3613	4517	5420	6323	7226	8130
1108	903	1805	2708	3610	4513	5415	6318	7220	8123
1109	902	1803	2705	3607	4509	5410	6312	7214	8115
1111	900	1800	2700	3600	4501	5401	6301	7201	8101
1112	899	1799	2698	3597	4497	5396	6295	7194	8094
1113	899	1797	2696	3594	4493	5391	6290	7188	8087
1114	898	1795	2693	3591	4489	5386	6284	7182	8079
1115	897	1794	2691	3588	4485	5381	6278	7175	8072
1116	896	1792	2688	3584	4480	5376	6272	7168	8064
1117	895	1791	2686	3581	4477	5372	6267	7162	8058
1118	895	1789	2684	3578	4473	5367	6262	7156	8051
1119	894	1787	2681	3575	4469	5362	6256	7150	8043
1121	892	1784	2676	3568	4461	5353	6245	7137	8029
1122	891	1783	2674	3565	4457	5348	6239	7130	8022
1123	891	1781	2672	3562	4453	5343	6234	7124	8015
1124	890	1779	2669	3559	4449	5338	6228	7118	8007
1125	889	1778	2666	3555	4444	5333	6222	7110	.7999
	1	2	3	4	5	6	7	8	9
1126	888	1776	2664	3552	4441	5329	6217	7105	7993
1127	887	1775	2662	3549	4437	5324	6211	7098	7986
1128	887	1773	2660	3546	4433	5319	6206	7092	7979
1129	886	1771	2657	3543	4429	5314	6200	7086	7971
1131	884	1768	2653	3537	4421	5305	6189	7074	7958
1132	883	1767	2650	3534	4417	5300	6184	7067	7951
1133	883	1765	2648	3530	4413	5296	6178	7061	7943
1134	882	1764	2645	3527	4409	5291	6173	7054	7936
1135	881	1762	2643	3524	4406	5287	6168	7049	7930
1136	880	1761	2641	3521	4402	5282	6162	7042	7923
1137	880	1759	2639	3518	4398	5277	6157	7036	7916
1138	879	1757	2636	3515	4394	5272	6151	7030	7908
1139	878	1756	2634	3512	4390	5268	6146	7024	7902
1141	876	1753	2629	3506	4382	5258	6135	7011	7888
1142	876	1751	2627	3503	4379	5254	6130	7006	7881
1143	875	1750	2625	3500	4375	5249	6124	6999	7874
1144	874	1748	2622	3496	4371	5245	6119	6993	7867
1145	873	1747	2620	3494	4367	5240	6114	6987	7861
1146	873	1745	2618	3490	4363	5236	6108	6981	7853
1147	872	1747	2615	3487	4359	5231	6103	6974	7846
1148	871	1742	2613	3484	4356	5227	6098	6969	7840
1149	870	1741	2611	3481	4352	5222	6092	6962	7833
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
1151	869	1738	2606	3475	4344	5213	6082	6950	7819
1152	868	1736	2604	3472	4341	5209	6077	6945	7813
1153	867	1735	2602	3469	4337	5204	6071	6938	7806
1154	867	1733	2600	3466	4333	5200	6066	6933	7799
1155	866	1732	2597	3463	4329	5195	6061	6926	7792
1156	865	1730	2595	3460	4326	5191	6056	6921	7786
1157	864	1729	2593	3457	4322	5186	6050	6914	7779
1158	864	1727	2591	3454	4318	5182	6045	6909	7772
1159	863	1726	2588	3451	4314	5177	6040	6902	7765
1161	861	1723	2584	3445	4307	5168	6029	6890	7752
1162	861	1721	2582	3442	4303	5164	6024	6885	7745
1163	860	1720	2579	3439	4299	5159	6019	6878	7738
1164	859	1718	2570	3436	4296	5155	6014	6873	7732
1165	858	1717	2575	3434	4292	5150	6009	6867	7726
1166	858	1715	2573	3430	4288	5146	6003	6861	7718
1167	857	1714	2571	3428	4285	5141	5998	6855	7712
1168	856	1712	2569	3425	4281	5137	5993	6850	7706
1169	855	1711	2566	3422	4277	5132	5988	6843	7699
1171	854	1708	2562	3416	4270	5124	5978	6832	7686
1172	853	1706	2560	3413	4266	5119	5972	6826	7679
1173	853	1705	2558	3410	4263	5115	5968	6820	7673
1174	852	1704	2555	3407	4259	5111	5963	6814	7666
1175	851	1702	2553	3404	4256	5107	5958	6809	7660
	1	2	3	4	5	6	7	8	9
1176	850	1701	2551	3401	4252	5102	5952	6802	7653
1177	850	1699	2549	3398	4248	5098	5947	6797	7646
1178	849	1698	2547	3396	4245	5093	5942	6791	7640
1179	848	1696	2545	3393	4241	5089	5937	6786	7634
1181	847	1693	2540	3387	4234	5080	5927	6774	7620
1182	846	1692	2538	3384	4230	5076	5922	6768	7614
1183	845	1691	2536	3381	4227	5072	5917	6762	7608
1184	845	1689	2534	3378	4223	5068	5912	6757	7601
1185	844	1688	2532	3376	4220	5063	5907	6751	7595
1186	843	1686	2530	3373	4216	5059	5902	6746	7589
1187	843	1685	2528	3370	4213	5055	5898	6740	7583
1188	842	1684	2525	3367	4209	5051	5893	6734	7576
1189	841	1682	2523	3364	4205	5046	5887	6728	7569
1191	840	1679	2519	3358	4198	5038	5877	6717	7556
1192	839	1678	2517	3356	4195	5033	5872	6711	7550
1193	838	1676	2515	3353	4191	5029	5867	6706	7544
1194	838	1675	2513	3350	4188	5025	5863	6700	7538
1195	837	1674	2510	3347	4184	5021	5858	6694	7531
1196	836	1672	2508	3344	4181	5017	5853	6689	7525
1197	835	1671	2506	3342	4177	5012	5848	6683	7519
1198	835	1669	2504	3339	4174	5008	5843	6678	7512
1199	834	1668	2502	3336	4170	5004	5838	6672	7506
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
1201	833	1665	2498	3330	4163	4996	5828	6661	7493
1202	832	1664	2496	3328	4160	4991	5823	6655	7487
1203	831	1663	2494	3325	4157	4988	5819	6650	7482
1204	831	1661	2492	3322	4153	4984	5814	6645	7475
1205	830	1660	2490	3320	4150	4979	5809	6639	7469
1206	829	1658	2488	3317	4146	4975	5804	6634	7463
1207	829	1657	2486	3314	4143	4971	5800	6628	7457
1208	828	1656	2483	3311	4139	4967	5795	6622	7450
1209	827	1654	2481	3308	4136	4963	5790	6617	7444
1211	826	1652	2477	3303	4129	4955	5781	6606	7432
1212	825	1650	2475	3300	4126	4951	5776	6601	7426
1213	824	1649	2473	3298	4122	4946	5771	6595	7420
1214	824	1647	2471	3295	4119	4942	5766	6590	7413
1215	823	1646	2469	3292	4115	4938	5761	6584	7407
1216	822	1645	2467	3290	4112	4934	5757	6579	7402
1217	822	1643	2465	3287	4109	4930	5752	6574	7395
1218	821	1642	2463	3284	4105	4926	5747	6568	7389
1219	820	1641	2461	3281	4102	4922	5742	6562	7383
1221	819	1638	2457	3276	4095	4914	5733	6552	7371
1222	818	1637	2455	3273	4092	4910	5728	6546	7365
1223	818	1635	2453	3271	4089	4906	5724	6542	7359
1224	817	1634	2451	3268	4085	4902	5719	6536	7353
1225	816	1633	2449	3265	4082	4898	5714	6530	7347
	1	2	3	4	5	6	7	8	9
1226	816	1631	2447	3263	4079	4894	5710	6526	7341
1227	815	1630	2445	3260	4075	4890	5705	6520	7335
1228	814	1629	2443	3257	4072	4886	5700	6514	7329
1229	814	1627	2441	3255	4069	4882	5696	6510	7323
1231	812	1625	2437	3249	4062	4874	5686	6498	7311
1232	812	1623	2435	3247	4059	4870	5682	6494	7305
1233	811	1622	2433	3244	4055	4866	5677	6488	7299
1234	810	1621	2431	3242	4052	4862	5673	6483	7294
1235	810	1619	2429	3239	4049	4858	5668	6478	7287
1236	809	1618	2427	3236	4046	4855	5664	6473	7282
1237	808	1617	2425	3234	4042	4850	5659	6467	7276
1238	808	1616	2423	3231	4039	4847	5655	6462	7270
1239	807	1614	2421	3228	4036	4843	5650	6457	7264
1241	806	1612	2417	3223	4029	4835	5641	6446	7252
1242	805	1610	2416	3221	4026	4831	5636	6442	7247
1243	805	1609	2414	3218	4023	4827	5632	6436	7241
1244	804	1608	2412	3216	4020	4823	5627	6431	7235
1245	803	1606	2410	3213	4016	4820	5622	6426	7229
1246	803	1605	2408	3210	4013	4816	5618	6421	7223
1247	802	1604	2406	3208	4010	4811	5613	6415	7217
1248	801	1603	2404	3205	4007	4808	5609	6410	7212
1249	801	1601	2402	3202	4003	4804	5604	6405	7205
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
1251	799	1599	2398	3198	3997	4796	5596	6395	7195
1252	799	1597	2396	3195	3994	4792	5591	6390	7188
1253	798	1596	2394	3192	3991	4789	5587	6385	7183
1254	797	1595	2392	3190	3987	4784	5582	6379	7177
1255	797	1594	2390	3187	3984	4781	5578	6374	7171
1256	796	1592	2389	3185	3981	4777	5573	6370	7166
1257	796	1591	2387	3182	3978	4773	5569	6364	7160
1258	795	1590	2385	3180	3975	4769	5564	6359	7154
1259	794	1589	2383	3177	3972	4766	5560	6354	7149
1261	793	1586	2379	3172	3965	4758	5551	6344	7137
1262	792	1585	2377	3170	3962	4754	5547	6339	7132
1263	792	1584	2375	3167	3959	4751	5543	6334	7126
1264	791	1582	2373	3164	3956	4747	5538	6329	7120
1265	791	1581	2372	3162	3953	4743	5534	6324	7115
1266	790	1580	2370	3160	3950	4739	5529	6319	7109
1267	789	1579	2368	3157	3947	4736	5525	6314	7104
1268	789	1577	2366	3154	3943	4732	5520	6309	7097
1269	788	1576	2364	3152	3940	4728	5516	6304	7092
1271	787	1574	2360	3147	3934	4721	5508	6294	7081
1272	786	1572	2358	3144	3931	4717	5503	6289	7075
1273	786	1571	2357	3142	3928	4713	5499	6284	7070
1274	785	1570	2355	3140	3925	4709	5494	6279	7064
1275	784	1569	2353	3137	3922	4706	5490	6274	7059
	1	2	3	4	5	6	7	8	9
1276	784	1567	2351	3135	3919	4702	5486	6270	7053
1277	783	1566	2349	3132	3915	4699	5482	6265	7048
1278	783	1565	2348	3130	3913	4695	5478	6260	7043
1279	782	1564	2346	3128	3910	4691	5473	6255	7037
1281	781	1561	2342	3122	3903	4684	5464	6245	7025
1282	780	1560	2340	3120	3900	4680	5460	6240	7020
1283	779	1559	2338	3118	3897	4676	5456	6235	7015
1284	779	1558	2336	3115	3894	4673	5452	6230	7009
1285	778	1556	2335	3113	3891	4669	5447	6226	7004
1286	778	1555	2333	3110	3888	4666	5443	6222	6998
1287	777	1554	2331	3108	3885	4662	5439	6216	6993
1288	776	1553	2329	3106	3882	4658	5435	6211	6988
1289	776	1552	2327	3103	3879	4655	5431	6206	6982
1291	775	1549	2324	3098	3873	4648	5422	6197	6971
1292	774	1548	2322	3096	3870	4644	5418	6192	6966
1293	773	1547	2320	3094	3867	4640	5414	6187	6961
1294	773	1546	2318	3091	3864	4637	5410	6182	6955
1295	772	1544	2317	3089	3861	4633	5405	6178	6950
1296	772	1543	2315	3086	3858	4630	5401	6173	6944
1297	771	1542	2313	3084	3855	4626	5397	6168	6939
1298	770	1541	2311	3082	3852	4622	5393	6163	6934
1299	770	1540	2309	3079	3849	4619	5389	6158	6928
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
1301	769	1537	2306	3074	3843	4612	5380	6149	6917
1302	768	1536	2304	3072	3840	4608	5376	6144	6912
1303	768	1535	2303	3070	3838	4605	5373	6140	6908
1304	767	1534	2301	3068	3835	4601	5368	6135	6902
1305	766	1533	2299	3065	3832	4598	5364	6130	6897
1306	766	1531	2297	3063	3829	4594	5360	6126	6891
1307	765	1530	2295	3060	3826	4591	5356	6121	6886
1308	765	1529	2294	3058	3823	4587	5352	6116	6881
1309	764	1528	2292	3056	3820	4583	5347	6111	6875
1311	763	1526	2288	3051	3814	4577	5340	6102	6865
1312	762	1524	2287	3049	3811	4573	5335	6098	6860
1313	762	1523	2285	3046	3808	4570	5331	6093	6854
1314	761	1522	2283	3044	3805	4566	5327	6088	6849
1315	761	1521	2282	3042	3803	4563	5324	6084	6845
1316	760	1520	2280	3040	3800	4559	5319	6079	6839
1317	759	1519	2278	3037	3797	4556	5315	6074	6834
1318	759	1517	2276	3035	3794	4552	5311	6070	6828
1319	758	1516	2274	3032	3791	4549	5307	6065	6823
1321	757	1514	2271	3028	3785	4542	5299	6056	6813
1322	756	1513	2269	3026	3782	4538	5295	6051	6808
1323	756	1512	2268	3024	3780	4535	5291	6047	6803
1324	755	1511	2266	3021	3777	4532	5287	6042	6798
1325	755	1509	2264	3019	3774	4528	5283	6038	6792
	1	2	3	4	5	6	7	8	9
1326	754	1508	2262	3016	3771	4525	5279	6033	6787
1327	754	1507	2261	3014	3768	4522	5275	6029	6782
1328	753	1506	2259	3012	3765	4518	5271	6024	6777
1329	752	1505	2257	3010	3762	4514	5267	6019	6772
1331	751	1503	2254	3005	3757	4508	5259	6010	6762
1332	751	1502	2252	3003	3754	4505	5256	6006	6757
1333	750	1500	2251	3001	3751	4501	5251	6002	6752
1334	750	1499	2249	2998	3748	4498	5247	5997	6746
1335	749	1498	2247	2996	3746	4495	5244	5993	6742
1336	749	1497	2246	2994	3743	4491	5240	5988	6737
1337	748	1496	2244	2992	3740	4487	5235	5983	6731
1338	747	1495	2242	2990	3737	4484	5232	5979	6727
1339	747	1494	2240	2987	3734	4481	5228	5974	6721
1341	746	1491	2237	2983	3729	4474	5220	5966	6711
1342	745	1490	2236	2981	3726	4471	5216	5962	6707
1343	745	1489	2234	2978	3723	4468	5212	5957	6701
1344	744	1488	2232	2976	3720	4464	5208	5952	6696
1345	744	1487	2231	2974	3718	4461	5205	5948	6692
1346	743	1486	2229	2972	3715	4457	5200	5943	6686
1347	742	1485	2227	2970	3712	4454	5197	5939	6682
1348	742	1484	2225	2967	3709	4451	5193	5935	6676
1349	741	1483	2224	2965	3707	4448	5189	5930	6672
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
1351	740	1480	2221	2961	3701	4441	5181	5922	6662
1352	740	1479	2219	2958	3698	4438	5177	5917	6657
1353	739	1478	2217	2956	3696	4435	5174	5913	6652
1354	739	1477	2216	2954	3693	4432	5170	5909	6647
1355	738	1476	2214	2952	3690	4428	5166	5904	6642
1356	738	1475	2213	2950	3688	4425	5163	5900	6638
1357	737	1474	2211	2948	3685	4421	5158	5895	6632
1358	736	1473	2209	2946	3682	4418	5155	5891	6628
1359	736	1472	2207	2943	3679	4415	5151	5886	6622
1361	735	1470	2204	2939	3674	4409	5144	5878	6613
1362	734	1468	2203	2937	3671	4405	5139	5874	6608
1363	734	1467	2201	2935	3669	4402	5136	5870	6603
1364	733	1466	2199	2932	3666	4399	5132	5865	6598
1365	733	1465	2198	2930	3663	4396	5128	5861	6593
1366	732	1464	2196	2928	3661	4393	5125	5857	6589
1367	732	1463	2195	2926	3658	4389	5121	5852	6584
1368	731	1462	2193	2924	3655	4386	5117	5848	6579
1369	731	1461	2192	2922	3653	4383	5114	5844	6575
1371	729	1459	2188	2918	3647	4376	5106	5835	6565
1372	729	1458	2187	2916	3645	4373	5102	5831	6560
1373	728	1457	2185	2913	3642	4370	5098	5826	6555
1374	728	1456	2183	2911	3639	4367	5095	5822	6550
1375	727	1455	2182	2909	3637	4364	5091	5818	6546
	1	2	3	4	5	6	7	8	9
1376	727	1453	2180	2907	3634	4361	5087	5814	6540
1377	726	1452	2179	2905	3631	4357	5083	5810	6536
1378	726	1451	2177	2903	3629	4354	5080	5806	6531
1379	725	1450	2176	2901	3626	4351	5076	5802	6527
1381	724	1448	2172	2896	3621	4345	5069	5793	6517
1382	724	1447	2171	2894	3618	4342	5065	5789	6512
1383	723	1446	2169	2892	3616	4339	5062	5785	6508
1384	723	1445	2168	2890	3613	4335	5058	5780	6503
1385	722	1444	2166	2888	3610	4332	5054	5776	6498
1386	722	1443	2165	2886	3608	4329	5051	5772	6494
1387	721	1442	2163	2884	3605	4326	5047	5768	6489
1388	821	1441	2162	2882	3603	4323	5044	5764	6485
1389	720	1440	2160	2880	3600	4319	5039	5759	6479
1391	719	1438	2157	2876	3595	4313	5032	5751	6470
1392	718	1437	2155	2874	3592	4310	5029	5747	6466
1393	718	1436	2154	2872	3590	4307	5025	5743	6461
1394	717	1435	2152	2870	3587	4304	5022	5739	6457
1395	717	1434	2150	2867	3584	4301	5018	5734	6451
1396	716	1433	2149	2865	3582	4298	5014	5730	6447
1397	716	1432	2147	2863	3579	4295	5011	5726	6442
1398	715	1431	2146	2861	3577	4292	5007	5722	6438
1399	715	1430	2144	2859	3574	4289	5004	5718	6433
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
1401	714	1428	2141	2855	3659	4283	4997	5710	6424
1402	713	1427	2140	2853	3567	4280	4993	5706	6420
1403	713	1426	2138	2851	3564	4277	4990	5702	6415
1404	712	1425	2137	2849	3562	4274	4986	5698	6411
1405	712	1423	2135	2847	3559	4270	4982	5694	6405
1406	711	1422	2134	2845	3556	4267	4978	5690	6401
1407	711	1421	2132	2843	3554	4264	4975	5686	6396
1408	710	1420	2131	2841	3551	4261	4971	5682	6392
1409	710	1419	2129	2839	3549	4258	4968	5678	6387
1411	709	1417	2126	2835	3544	4252	4961	5670	6378
1412	708	1416	2125	2833	3541	4249	4957	5666	6374
1413	708	1415	2123	2831	3539	4246	4954	5662	6369
1414	707	1414	2122	2829	3536	4243	4950	5658	6365
1415	707	1413	2120	2827	3534	4240	4947	5654	6360
1416	706	1412	2119	2825	3531	4237	4943	5650	6356
1417	706	1411	2117	2823	3529	4234	4940	5646	6351
1418	705	1410	2116	2821	3526	4231	4936	5642	6347
1419	705	1409	2114	2819	3524	4228	4933	5638	6342
1421	704	1407	2111	2815	3519	4222	4926	5630	6333
1422	703	1406	2110	2813	3516	4219	4922	5626	6329
1423	703	1405	2108	2811	3514	4216	4919	5622	6324
1424	702	1404	2107	2809	3511	4213	4915	5618	6320
1425	702	1404	2105	2807	3509	4211	4913	5614	6316
	1	2	3	4	5	6	7	8	9
1426	701	1403	2104	2805	3507	4208	4909	5610	6312
1427	701	1402	2102	2803	3504	4205	4906	5606	6307
1428	700	1401	2101	2801	3502	4202	4902	5602	6303
1429	700	1400	2099	2799	3499	4199	4899	5598	6298
1431	699	1398	2096	2795	3494	4193	4892	5590	6289
1432	698	1397	2095	2793	3492	4190	4888	5586	6285
1433	698	1396	2093	2791	3489	4187	4885	5582	6280
1434	697	1395	2092	2790	3487	4184	4882	5579	6277
1435	697	1394	2091	2788	3485	4181	4878	5575	6272
1436	696	1393	2089	2786	3482	4178	4875	5571	6268
1437	696	1392	2088	2784	3480	4175	4871	5567	6263
1438	695	1391	2086	2782	3477	4172	4868	5563	6259
1439	695	1390	2085	2780	3475	4169	4864	5559	6254
1441	694	1388	2082	2776	3470	4164	4858	5552	6246
1442	694	1387	2081	2774	3468	4161	4855	5548	6242
1443	693	1386	2079	2772	3465	4158	4851	5544	6237
1444	693	1385	2078	2770	3463	4155	4848	5540	6233
1445	692	1384	2076	2768	3460	4152	4844	5536	6228
1446	692	1383	2075	2766	3458	4150	4841	5533	6224
1447	691	1382	2073	2764	3456	4147	4838	5529	6220
1448	691	1381	2072	2762	3453	4144	4834	5525	6215
1449	690	1380	2070	2760	3451	4141	4831	5521	6211
	1	2	3	4	5	6	7	8	9

Miles.	1	2	3	4	5	6	7	8	9
1451	689	1378	2068	2757	3446	4135	4824	5514	6203
1452	689	1377	2066	2755	3444	4132	4821	5510	6198
1453	688	1376	2065	2753	3441	4129	4817	5506	6194
1454	688	1376	2603	2751	3439	4127	4815	5502	6190
1455	687	1375	2062	2749	3437	4124	4811	5498	6186
1456	687	1374	2060	2747	3434	4121	4808	5494	6181
1457	686	1373	2059	2745	3432	4118	4804	5490	6177
1458	686	1372	2058	2744	3430	4115	4801	5487	6173
1459	685	1371	2056	2742	3427	4112	4798	5483	6169
1461	685	1369	2054	2738	3423	4107	4792	5476	6161
1462	684	1368	2052	2736	3420	4104	4788	5472	6156
1463	684	1367	2051	2734	3418	4101	4785	5468	6152
1464	683	1366	2049	2732	3416	4099	4782	5465	6148
1465	683	1365	2048	2730	3413	4096	4778	5461	6143
1466	682	1364	2046	2728	3411	4093	4775	5457	6139
1467	682	1363	2045	2727	3409	4090	4772	5454	6135
1468	681	1362	2044	2725	3406	4087	4768	5450	6131
1469	681	1361	2042	2723	3404	4084	4765	5446	6126
1471	680	1360	2039	2719	3399	4079	4759	5438	6118
1472	679	1359	2038	2717	3397	4076	4755	5434	6114
1473	679	1358	2037	2716	3395	4073	4752	5431	6110
1474	678	1357	2035	2714	3392	4070	4749	5427	6106
1475	678	1356	2034	2712	3390	4068	4746	5424	6102
	1	2	3	4	5	6	7	8	9
1476	678	1355	2033	2710	3388	4065	4743	5420	6098
1477	677	1354	2031	2708	3385	4062	4740	5416	6093
1478	677	1353	2030	2706	3383	4060	4736	5413	6089
1479	676	1352	2028	2704	3381	4057	4733	5409	6085
1481	675	1350	2026	2701	3376	4051	4726	5402	6077
1482	675	1350	2024	2699	3374	4049	4724	5398	6073
1483	674	1349	2023	2697	3372	4046	4720	5394	6069
1484	674	1348	2022	2696	3370	4043	4717	5391	6065
1485	673	1347	2020	2694	3367	4040	4714	5387	6061
1486	673	1346	2019	2692	3365	4037	4710	5383	6056
1487	673	1345	2018	2690	3363	4035	4708	5380	6053
1488	672	1344	2016	2688	3360	4032	4704	5376	6048
1489	672	1343	2015	2686	3358	4030	4701	5373	6044
1491	671	1341	2012	2683	3354	4024	4695	5366	6036
1492	670	1340	2011	2681	3351	4021	4691	5362	6032
1493	670	1340	2009	2679	3349	4019	4689	5358	6028
1494	669	1339	2008	2677	3347	4016	4685	5354	6024
1495	669	1338	2007	2676	3345	4513	4682	5351	6020
1496	669	1337	2006	2674	3343	4011	4680	5348	6017
1497	668	1336	2004	2672	3340	4008	4676	5344	6012
1498	668	1335	2003	2670	3338	4006	4673	5341	6008
1499	667	1334	2001	2668	3336	4003	4670	5337	6004
	1	2	3	4	5	6	7	8	9

TABLE No. 2.

For the reduction of any given weight to tons or bushels, and with the same figures reducing the rate per ton or bushel to rate per hundred pounds. Below I give the table and example, as above stated :

	1	2	3	4	5	6	7	8	9
Ton—2240 lbs.....	4464	8929	13393	17857	22321	26786	31250	35714	40179
Ton—2268 lbs.....	4409	8818	13227	17636	21045	25455	30864	35273	39682

EXAMPLE.—To ascertain the number of tons and hundredths of tons in the following weight, 54,672 lbs., viz. : 2240 lbs. to the ton :

Under the numeral 5..... 22321
" " " 4..... 17857
" " " 6..... 26786
" " " 7..... 31250
" " " 2..... 8929

24,406.7029=24 $\frac{41}{100}$ tons.

If the rate be quoted $2.64 per ton of 2240 lbs., and you desire to reduce same to rate per 100 lbs. to facilitate calculation, you will find the answer under the numerals 2, 6, 4, thus :

Under numeral 2..... 8929
" " 6..... 26786
" " 4..... 17857

11.78617=11 $\frac{79}{100}$ cents per 100 lbs.

TABLE No. 3.

Reducing any number of pounds to bushels and hundredths.

	1	2	3	4	5	6	7	8	9
WHEAT.									
60 lbs. to the bushel.....	1667	3333	5000	6667	8333	10000	11667	13334	15300
CORN.									
56 lbs. to the bushel.....	1786	3571	5357	7143	8929	10714	12500	14286	16071
OATS.									
32 lbs. to the bushel.....	3125	6250	9375	12500	15625	18750	21875	25300	28125

EXAMPLE.—To ascertain number of bushels of wheat in 34,521 lbs. :

Under numeral 3..... 5000
" " 4..... 6667
" " 5..... 8333
" " 2..... 3333
" " 1..... 1667

575,35297=575 $\frac{35}{100}$ bushels.

If rate be quoted 16 cents per bushel, and you desire to name rate per 100 lbs.. the answer will be found under the numerals 1, 6, viz. :

Under numeral 1..... 1667
" " 6..... 10000

26,670=26$\frac{2}{3}$ cents per 100 lbs.

Always advance one decimal to right, as shown in above example.
Corn and oats the same way, using the figures in their respective columns.

TABLE No. 4.

Showing Value of any Weight when Rate per Ton of 2240 lbs. is given.

	1	2	3	4	5	6	7	8	9
Rate.									
1	4464	8929	13393	17857	22321	26786	31250	35714	40179
2	8929	17857	26786	35714	44643	53571	62500	71429	80357
3	13393	26786	40179	53571	66964	80357	93750	107143	120536
4	17857	35714	53571	71429	89286	107143	125000	142857	160714
5	22321	44643	66964	89286	111607	133929	156250	178571	200893
6	26786	53571	80357	107143	133929	160714	187500	214286	241071
7	31250	62500	93750	125000	156250	187500	218750	250000	281250
8	35714	71429	107143	142857	178571	214286	250000	285714	321428
9	40179	80357	120536	160714	200893	241071	281250	321428	361608

EXAMPLE.—923.153 lbs. at $3.60 per ton. As 360 can be reduced to a single number, viz.: $60\times6=360$. Find 6 in left-hand column, and read opposite to it as follows:

Under numeral	9	.....	241071
"	"	2	53571
"	"	1	26786
"	"	5	133929
"	"	3.....	80357
			247272.65247
Now multiply by			6
			1483.63.2=$1483.63

PROOF.—Opposite figure 1 in left-hand column and under the numerals given in weight will be found the number of tons, viz.:

Under numeral	9	.....	40179
"	"	2.....	8929
"	"	3.....	13393
"	"	1.....	4464
"	"	5	22321
"	"	3	13393
			41212.66003=$412\frac{12}{100}$ tons at $3.60 per ton, $1,483.63.

NOTE.—In Table No. 4 the ton value will be found in left-hand column of figures. The total weight to be treated is to be taken from figures at top of page.

APPLICATION.—Reduce the ton value to units, or some multiple of ten, thus: If value per ton is 72 cents, we have $9\times8=72$; find value of total weight opposite 8 and multiplying result by 9 we have value of total weight at 72c. per ton. In like manner, if ton value is $2.40 we have $6\times40=240$. Take value of total weight opposite 4 (which is the same for 4, 40, 400, &c.) and multiplying by 6 we have value of total weight at $2.40 per ton.

The example following Table No. 4 will show to better advantage its use.

TABLE No. 5.

To convert Sterling into dollars and cents equal to $4.80 *to the £ Sterling.*

	1	2	3	4	5	6	7	8	9
£	480	960	1440	1920	2400	2880	3360	3840	4320
S	240	480	720	960	1200	1440	1680	1920	2160
D	200	400	600	800	1000	1200	1400	1600	1800

EXAMPLE.—Should you wish to convert £42, 5*s.*, 8*d.*, into American Currency, you will proceed with table as follows:

Under numeral	4,	Value	£40	1920
" "	2,	"	£ 2	960
" "	5,	"	s. 5	1200
" "	8,	"	d. 8	1600
American Currency				$202.96.00

TABLE No. 6.

Reduction of £ Sterling to United States Gold under an Act approved March 3d, 1873, *fixing Value of £ Sterling at* $4.8665.

	1	2	3	4	5	6	7	8	9
£ Sterl.	48665	97330	145995	194660	243325	291990	340655	389320	437985

EXAMPLE.—To find the value of £54, you will find the answer under the numerals 5 and 4, which represent £ Sterling, viz.:

Under numeral	5, Value	£50	243325
" "	4, "	4	194660
Total		£54	$262.79.10

In working these tables advance one decimal to the right of preceding figures as shown in example. This rule must be observed in every case, and you will find the answer correct and more rapid than any system used.

TABLE No. 7.

Showing rate Sterling per ton (2240 lbs.) and reducing same to rate per 100 lbs., with and without primage—$4.80 to the £ Sterling.

Per Ton in Shillings.	1	2	3	4	5	6	7	8	9
Per ton in cents, Gold.....	24	48	72	96	120	144	168	192	216
Per ton in cents, with primage, Gold	252	504	756	1008	1260	1512	1764	2016	2268
Per 100 lbs. in cts., Gold.....	10714	21429	32143	42857	53571	64286	75000	85714	96428
Per 100 lbs. in cts., with primage, Gold	11250	22500	33750	45000	56250	67500	78750	90000	101250

EXAMPLE.—Rate New York to Liverpool, 23 shillings per ton (2240 lbs.), without primage. Take column noted per ton in cents, Gold, and under the numerals 2 and 3 will be found the figures necessary to give the amount in U. S. Currency per ton, viz.:

Under numeral 2, Value 20 shillings..... 48
" " 3, " 3 " 72

23 shillings equal $5.52 per ton (2240 lbs.)

Should you desire to reduce to rate per 100 lbs., proceed in same manner, taking the column noted per 100 lbs., and

Under numeral 2..... 21429
" " 3..... 32143

$24{,}6433 = 24\ \frac{64}{100}$ cent. per 100 lbs.

NOTE.—Opposite "Per ton in cents, with primage, Gold," and under numeral 1 the figures 252 read properly $25\frac{2}{10}$ cents, or 25.2. The decimal point is omitted because these figures change in value as you go from one shilling to ten or one hundred shillings, thus:

1 shilling with primage.....25.2 cents.
10 " " " .....252 "
100 " " " .....2520 "

And in like manner the values of the other numeral vary as they are made to represent units, tens and hundredths.

TABLE No. 8.

Showing rates in cents, American Currency, and Pence Sterling, per 100 lbs., and equivalent rates per bushel on Wheat, Corn and Oats. Wheat, per bushel, 60 lbs.; Corn, per bushel, 56 lbs.; Oats, per bushel, 32 lbs.

PENCE, per 100 Pounds	1	2	3	4	5	6	7	8	9
CENTS, " " "	2	4	6	8	10	12	14	16	18
WHEAT, per bushel, Cents	120	240	360	480	600	720	840	960	1080
CORN " " "	112	224	336	448	560	672	784	896	1008
OATS, " " "	64	128	192	256	320	384	448	512	576

EXAMPLE.—Should rate be quoted 23 pence per 100 lbs., you will find its equivalent in cents under the figures 2 and 3, viz.: 4 and 6, or 46 cents per 100 lbs. If rate 62 pence be quoted, you will find the answer in cents in same manner, viz.:

Under numeral 6, Value 60 pence..... 12
" " 2, " 2 " 04

124 cents per 100 lbs.

If you wish to ascertain the rate in cents per bushel on wheat at the rates quoted above, you will proceed in same manner, viz.:

Under numerals named in column noted "Wheat per bushel" you will find the answer.

Under numeral 2, Value 20 pence..... 240
" " 3, " 3 " 360

27 $\frac{60}{100}$ cents per bushel.

And in same manner proceed with the rate of 62 pence. In every case advance one decimal to the right of preceding figures as shown in example.

TABLE No. 9.

For Discounts.

	1	2	3	4	5	6	7	8	9
Rate, 6 per cent.									
TIME—19 days	.9968	19937	29905	39873	49842	59810	69778	79747	89715
" 30 "	.9950	19900	29850	39800	49750	59700	69650	79600	89550
" 34 "	.9943	19887	29830	39773	49717	59660	69603	79547	89490
" 60 "	.9900	19800	29700	39600	49500	59400	69300	79200	89100
" 64 "	.9893	19787	29680	39573	49467	59360	69253	79147	89040
" 90 "	.9850	19700	29550	39400	49250	59100	68950	78800	88650
" 94 "	.9843	19687	29530	39373	49217	59060	68903	78747	88590
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Rate, 9 per cent.									
TIME—19 days	.9953	19905	29857	39810	49763	59715	69668	79620	89573
" 30 "	.9925	19850	29775	39700	49625	59550	69475	79400	89325
" 34 "	.9915	19830	29745	39660	49575	59490	69405	79320	89235
" 60 "	.9850	19700	29550	39400	49250	59100	68950	78800	88650
" 64 "	.9840	19680	29520	39360	49200	59040	68880	78520	88560
" 90 "	.9775	19550	29325	39100	48875	58650	68425	78200	87975
" 94 "	.9765	19530	29295	39060	48825	58590	68355	78120	87885

EXAMPLE.—$583.27, 34 days, discount 9 per cent. Find 34 days in left-hand column and opposite to it and under numerals given in amount will be found the answer, viz.:

Under numeral	5.....	49575
"	8.....	79320
"	3.....	29745
"	2.....	19830
"	7.....	69405
		$578.31,2205=$578.31

TABLE No. 10.

Table for Computing Interest on any Amount.

Amount.	1	2	3	4	5	6	7	8	9
At 5 per ct. per annum.									
TIME:									
19 days.....	10026	20053	30079	40106	50132	60158	70185	80211	90237
34 days.....	10047	20094	30142	40189	50236	60282	70330	80378	90425
64 days.....	10089	20178	30267	40355	50444	60533	70622	80711	90800
94 days.....	10130	20261	30392	40522	50653	60783	70914	81044	91175
4 months, 4 days...	10172	20344	30517	40689	50861	61033	71205	81378	91550
5 months, 4 days...	10214	20428	30642	40856	51069	61283	71497	81711	91925
6 months, 4 days...	10256	20511	30767	41022	51278	61533	71789	82044	92300
Amount.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
At 6 per ct per annum.									
TIME:									
19 days.....	10032	20063	30095	40127	50158	60190	70222	80253	90285
34 days.....	10057	20113	30170	40227	50283	60340	70397	80453	90510
64 days.....	10107	20213	30320	40427	50533	60640	70746	80853	90960
94 days.....	10157	20313	30470	40627	50783	60940	71097	81253	91410
4 months, 4 days...	10207	20413	30620	40827	51033	61240	71446	81653	91860
5 months, 4 days...	10257	20513	30770	41027	51283	61540	71797	82053	92310
6 months, 4 days...	10307	20613	30920	41227	51533	61840	72147	82453	92760

EXAMPLE.—$567\frac{34}{100}$. 94 days at 5 per cent. per annum. Opposite to 94 days and

Under numeral	5,	Value	50000.....	50653
" "	6.	"	6000.....	60783
" "	7.	"	700.....	70914
" "	3,	"	30.....	30392
" "	4,	"	4	40522
Principal and Interest.....				$574.74.8842

In same manner use the tables for the different rates of interest as required.

In all cases advance one decimal to the right. as shown in example, except in cases where a cipher occurs thus—$507.03. 94 days at 5 per cent. per annum. Now opposite to 94 days and

Under numeral	5,	Value	50000, $506.53, add cipher	506530
" "	7,	"	700, advance decimal and add cipher..	709140
" "	3,	"	3.....	30392
Principal and Interest.....				$513.65.1792

Should you wish to ascertain interest on any even amount you will find the answer under respective numerals, viz.: $500.00, 34 days at 6 per cent. would be $502.83; $50.00, 34 days at 6 per cent. would be $50.28. These tables apply to any amount you may require. For example, $12.00 at 6 per cent. for 34 days: You take the figures under 1 and 2, advancing decimal as above shown:

Under numeral	1.....	10057
" "	2.....	20113

12.0683=$12.07 being the principal and interest.

TABLE No. 11.

INTEREST TABLE—CONTINUED.

	1	2	3	4	5	6	7	8	9
At 7 per ct. per annum. TIME:									
19 days	10037	20074	30111	40147	50185	60222	70258	80296	90332
34 days	10066	20132	30198	40264	50331	60397	70463	80529	90595
64 days	10124	20249	30373	40498	50622	60747	70871	80996	91120
94 days	10183	20365	30548	40731	50914	61097	71279	81462	91645
4 months, 4 days	10241	20482	30723	40964	51206	61446	71688	81929	92170
5 months, 4 days	10299	20599	30898	41198	51497	61797	72096	82396	92695
6 months, 4 days	10358	20715	31073	41431	51789	62147	72504	82862	93220

EXAMPLE.—$964.21, 64 days at 7 per cent. Opposite 64 days and under the numerals named in amount will be found the principal and interest combined, viz.:

Under numeral	9,	Value $90000		91120
"	6,	"	6000	60747
"	4,	"	400	40498
"	2,	"	20	20249
"	1,	"	1	10124
Principal and Interest				$976.20.9414

For convenience, I give below table for computing interest on any amount at 6 per cent. excluding the principal:

	1	2	3	4	5	6	7	8	9
TIME— 30 days	5	10	15	20	25	30	35	40	45
" 60 "	10	20	30	40	50	60	70	80	90
" 90 "	15	30	45	60	75	90	105	120	135
" 120 "	20	40	60	80	100	120	140	160	180

EXAMPLE.—$743.46, 90 days at 6 per cent. Opposite to 90 days and under the numerals named in amount will be found the answer, viz.:

Under numeral	7,	Value 70000		105
"	4,	"	4000	60
"	3,	"	300	45
"	4,	"	40	60
"	6,	"	6	90
				1115.190=$11.15.

TABLE No. 12.

For ascertaining number of revolutions made by wheels of different diameter for any number of miles.

Miles.	1	2	3	4	5	6	7	8	9
Diameter.									
12 inches	1681	3361	5042	6723	8403	10084	11765	13445	15126
18 "	1120	2241	3361	4482	5602	6723	7843	8964	10084
24 "	840	1681	2521	3361	4202	5042	5882	6723	7563
30 "	672	1344	2017	2689	3361	4034	4706	5378	6050
36 "	560	1120	1681	2241	2801	3361	3921	4482	5042
42 "	480	960	1440	1920	2401	2881	3361	3841	4321
48 "	420	840	1260	1680	2100	2520	2940	3361	3781
54 "	373	747	1120	1494	1867	2240	2614	2987	3361
60 "	336	672	1008	1345	1681	2017	2353	2689	3025
66 "	306	611	917	1222	1528	1833	2139	2445	2750
72 "	280	560	840	1120	1400	1681	1961	2241	2521

EXAMPLE.—Car wheel, 30 inches diameter. Number of revolutions in 324 miles as follows:

Under numeral 3	2017
" " 2	1344
" " 4	2689
	217.829 revolutions.

TABLE No. 13.

Giving Rate of Speed made by Trains between Stations.

Miles.	1	2	3	4	5	6	7	8	9
Minutes.									
3	20	40	60	80	100	120	140	160	180
4	15	30	45	60	75	90	105	120	135
5	12	24	36	48	60	72	84	96	108
6	10	20	30	40	50	60	70	80	90
8	75	150	225	300	375	450	525	600	675
10	60	120	180	240	300	360	420	480	540
12	50	100	150	200	250	300	350	400	450
15	40	80	120	160	200	240	280	320	360
20	30	60	90	120	150	180	210	240	270
25	24	48	72	96	120	144	168	192	216
30	20	40	60	80	100	120	140	160	180

EXAMPLE.—Train runs 7 miles in 12 minutes. To find rate of speed: Opposite to 12 minutes, and under numeral 7, will be found the answer, viz.: 35.0=35 miles per hour. Train making 23 miles in 25 minutes, you will find answer opposite 25 minutes and under numerals 2 and 3, viz.:

Under numeral 2 48
" " 3 72

55.2=$55\frac{2}{10}$ miles per hour.

PROOF.—Divide miles by number of minutes and multiply result by 60. Thus:

Miles.
Minutes. 25)2300(92
60

55.20 miles per hour.

TABLE No. 14.

	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16	18
3	3	6	9	12	15	18	21	24	27
4	4	8	12	16	20	24	28	32	36
5	5	10	15	20	25	30	35	40	45
6	6	12	18	24	30	36	42	48	54
7	7	14	21	28	35	42	49	56	63
8	8	16	24	32	40	48	56	64	72
9	9	18	27	36	45	54	63	72	81
11	11	22	33	44	55	66	77	88	99
12	12	24	36	48	60	72	84	96	108
13	13	26	39	52	65	78	91	104	117
14	14	28	42	56	70	84	98	112	126
15	15	30	45	60	75	90	105	120	135
16	16	32	48	64	80	96	112	128	144
17	17	34	51	68	85	102	119	136	153
18	18	36	54	72	90	108	126	144	162
19	19	38	57	76	95	114	133	152	171
21	21	42	63	84	105	126	147	168	189
22	22	44	66	88	110	132	154	176	198
23	23	46	69	92	115	138	161	184	207
24	24	48	72	96	120	144	168	192	216
	1	2	3	4	5	6	7	8	9
25	25	50	75	100	125	150	175	200	225
26	26	52	78	104	130	156	182	208	234
27	27	54	81	108	135	162	189	216	243
28	28	56	84	112	140	168	196	224	252
29	29	58	87	116	145	174	203	232	261
31	31	62	93	124	155	186	217	248	279
32	32	64	96	128	160	192	224	256	288
33	33	66	99	132	165	198	231	264	297
34	34	68	102	136	170	204	238	272	306
35	35	70	105	140	175	210	245	280	315
36	36	72	108	144	180	216	252	288	324
37	37	74	111	148	185	222	259	296	333
38	38	76	114	152	190	228	266	304	342
39	39	78	117	156	195	234	273	312	351
41	41	82	123	164	205	246	287	328	369
42	42	84	126	168	210	252	294	336	378
43	43	86	129	172	215	258	301	344	387
44	44	88	132	176	220	264	308	352	396
45	45	90	135	180	225	270	315	360	405
46	46	92	138	184	230	276	322	368	414
47	47	94	141	188	235	282	329	376	423
48	48	96	144	192	240	288	336	384	432
49	49	98	147	196	245	294	343	392	441
	1	2	3	4	5	6	7	8	9

	1	2	3	4	5	6	7	8	9
51	51	102	153	204	255	306	357	408	459
52	52	104	156	208	260	312	364	416	468
53	53	106	159	212	265	318	371	424	477
54	54	108	162	216	270	324	378	432	486
55	55	110	165	220	275	330	385	440	495
56	56	112	168	224	280	336	392	448	504
57	57	114	171	228	285	342	399	456	513
58	58	116	174	232	290	348	406	464	522
59	59	118	177	236	295	354	413	472	531
61	61	122	183	244	305	366	427	488	549
62	62	124	186	248	310	372	434	496	558
63	63	126	189	252	315	378	441	504	567
64	64	128	192	256	320	384	448	512	576
65	65	130	195	260	325	390	455	520	585
66	66	132	198	264	330	396	462	528	594
67	67	134	201	268	335	402	469	536	603
68	68	136	204	272	340	408	476	544	612
69	69	138	207	276	345	414	483	552	621
71	71	142	213	284	355	426	497	568	639
72	72	144	216	288	360	432	504	576	648
73	73	146	219	292	365	438	511	584	657
74	74	148	222	296	370	444	518	592	666
75	75	150	225	300	375	450	525	600	675

	1	2	3	4	5	6	7	8	9
76	76	152	228	304	380	456	532	608	684
77	77	154	231	308	385	462	539	616	693
78	78	156	234	312	390	468	546	624	702
79	79	158	237	316	395	474	553	632	711
81	81	162	243	324	405	486	567	648	729
82	82	164	246	328	410	492	574	656	738
83	83	166	249	332	415	498	581	664	747
84	84	168	252	336	420	504	588	672	756
85	85	170	255	340	425	510	595	680	765
86	86	172	258	344	430	516	602	688	774
87	87	174	261	348	435	522	609	696	783
88	88	176	264	352	440	528	616	704	792
89	89	178	267	356	445	534	623	712	801
91	91	182	273	364	455	546	637	728	819
92	92	184	276	368	460	552	644	736	828
93	93	186	279	372	465	558	651	744	837
94	94	188	282	376	470	564	658	752	846
95	95	190	285	380	475	570	665	760	855
96	96	192	288	384	480	576	672	768	864
97	97	194	291	388	485	582	679	776	873
98	98	196	294	392	490	588	686	784	882
99	99	198	297	396	495	594	693	792	891

	1	2	3	4	5	6	7	8	9

EXAMPLES FOR TABLE NO. 14.

The table on preceding pages (46 and 47) is simply multiplication, but the position of the figures and the uses to which it can be applied makes it a valuable addition to this system of calculation.

The numerals in left-hand column from 1 to 99, inclusive, can be used to represent per cents., and from 1 to 9, inclusive, the fractional parts of per cents.

EXAMPLE.—Should you wish 19 per cent of $234.56: Find 19 in left-hand column, and opposite to it and under the numerals named in amount you will find the answer thus:

Under numeral	2	38
"	3.....	57
"	4.....	76
"	5	95
"	6..... ...	114

44.56.64=$44.57.

If you should have required $19\frac{2}{10}$ per cent., you will simply add the numerals opposite figure 2 and under the same as above, which can be readily read from the sheet thus:

468
10
12

469.12

Which add to the above, advancing one decimal to the right, thus:

445664
46912

45.03.552=$45.04.

This Table will be found very useful for multiplication of any given weight, or for calculating wages per diem or week. Example: 18 days at $2.34 per day. Opposite 18 in left-hand column and under numerals named in amount will be found the answer, thus:

Under numeral	2.....	36
"	3.....	54
"	4.....	72

$42.12

Again, 45,321 lbs. at 17 cents per 100 lbs. You will find the answer opposite 17 and under the numerals given in weight in their order, viz.:

Under	4.....	68
"	5.....	85
"	3.....	51
"	2.....	34
"	1.....	17

7704.57=$77.05.

INDEX TO CONTENTS.

	Page.
SYNOPSIS.	3
EXAMPLES—Table No. 1	4–5
PERCENTAGE—Table No. 1.	6–35
TABLE FOR REDUCING WEIGHT to tons and bushels	36
TABLE FOR REDUCING WEIGHT to tons and tons to money, at any given rate per ton.	37
£, *S.*, *D.*, REDUCED TO U. S. CURRENCY.	38
RATES IN SHILLINGS AND PENCE reduced to U. S. Currency, per ton or per 100 lbs.	39–40
DISCOUNTS.	41
COMPUTING INTEREST ON ANY AMOUNT.	42–43
FOR ASCERTAINING NUMBER OF REVOLUTIONS made by Wheels of Different Diameters for any Number of Miles.	44
RATE OF SPEED MADE BY TRAINS BETWEEN STATIONS.	45
MULTIPLICATION TABLE.	46–48

NOTE.

On Page 33, in column under numeral 1, opposite 1388 miles, 821 should read 721. On Page 36, in column under numeral 5, opposite 2268 lbs., 21045 should read 22045. On Page 36, in column under numeral 6, opposite 2268 lbs., 25455 should read 26455.

LIBRARY OF CONGRESS
0 033 266 444 A